

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 30, 2004, 19:57:17 ; Search time 4103.41 Seconds  
(without alignments)  
12684.514 Million cell updates/sec

Title: US-10-077-698-2

Perfect score: 1743

Sequence: 1 tccgactagctctagacg.....aaaaaaaaaagggcgg 1743

Scoring table: OLIGO NUC  
Gapop 60.0 , Gapext 60.0

Searched: 27513289 seqs, 14931090276 residues

Word size : 0

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

Database :

EST:\*  
1: em\_estpa:\*  
2: em\_esthm:\*  
3: em\_estin:\*  
4: em\_estnu:\*  
5: em\_estov:\*  
6: em\_estpl:\*  
7: em\_estro:\*  
8: em\_hic:\*  
9: gb\_est1:\*  
10: gb\_est2:\*  
11: gb\_hic:\*  
12: gb\_est3:\*  
13: gb\_est4:\*  
14: gb\_est5:\*  
15: em\_estfun:\*  
16: em\_estom:\*  
17: em\_gss\_hum:\*  
18: em\_gss\_fav:\*  
19: em\_gss\_pln:\*  
20: em\_gss\_vtc:\*  
21: em\_gss\_fun:\*  
22: em\_gss\_mam:\*  
23: em\_gss\_mus:\*  
24: em\_gss\_pro:\*  
25: em\_gss\_rtd:\*  
26: em\_gss\_phg:\*  
27: em\_gss\_vtl:\*  
28: gb\_gss1:\*  
29: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	582	33.4	936	14	CD517915 AGENCOURT
2	508	29.1	611	12	BM739118 K-EST0008
3	393	22.5	1201	13	BX444304 BX444304
4	343	19.7	448	12	BM757151 K-EST0035

RESULT 1	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	TITLE	AUTHORS	JOURNAL	COMMENT
CD517915	CD517915	CD517915	CD517915	CD517915.1	GI:31449633	936 bp	mRNA	linear	EST	06-JUN-2003		
AGENCOURT_14364614	NIH_MGC_181	Homo sapiens	CDNA clone	IMAGE:30397270	5', mRNA sequence.							
CD517915	CD517915	CD517915	CD517915	CD517915.1	GI:31449633	936 bp	mRNA	linear	EST	06-JUN-2003		
AGENCOURT_14364614	NIH_MGC_181	Homo sapiens	CDNA clone	IMAGE:30397270	5', mRNA sequence.							
CD517915	CD517915	CD517915	CD517915	CD517915.1	GI:31449633	936 bp	mRNA	linear	EST	06-JUN-2003		
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AGENCOURT_14364614	NIH_MGC_181	Homo sapiens	CDNA clone									





FEATURES  
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Location/Qualifiers  
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/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="S3SNU16-31-B04"  
/sex="F"  
/tissue\_type="Ascites"  
/cell\_type="lymphoblast-like"  
/cell\_line="SNU-16"  
/lab\_host="Top10F"  
/clone\_id="S3SNU16"  
/note="Organ: Stomach; Vector: pTZ18RP1; Site 1: EcoRI; Site 2: NotI; The poly (A) + RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tobacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA-RNA linker including EcoR I site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dt-selected mRNA by priming with dt-tailed vector. The dt-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with E. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Bery method. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10F by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."

ORIGIN  
Query Match 19.7%; Score 343; DB 12; Length 448;  
Best Local Similarity 99.7%; Pred. No. 1.6e-58;  
Matches 393; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 15 AGACCGCTGGGGCGCCGAGCGCGGAGATGTCCTGATGCGCGGCGACGGCGG 74  
DB 28 AGACCGCTGGGGCGCGCGAGCGCGGAGATGTCCTGATGCGCGGCGACGGCGG 87  
QY 75 ACGGCGCCTTGGCGAGCTGGAGAGCAACCGCACCGGCTTCCCTTCTTCCGACG 134  
DB 88 ACGGCGCCTTGGCGAGCTGGAGAGCAACCGCACCGGCTTCCCTTCTTCCGACG 147  
QY 135 TCAAGGGCGACACCGGCTGGTGGCCGGGCTGAGAGACAACCGTGTGCTCATCT 194  
DB 148 TCAAGGGCGACACCGGCTGGTGGCCGGGCTGAGAGACAACCGTGTGCTCATCT 207  
QY 195 TTGCAAGTGTGCTGCTGGGCAACGTGCGCTGCTGTGGCGCGGACGAGAGCC 254  
DB 208 TTGCAAGTGTGCTGCTGGGCAACGTGCGCTGCTGTGGCGCGGACGAGAGCC 267  
QY 255 GCGGCGGAGACTGCTGCTGGTACTCAACCTCTGCGGCGGAGACTGCTGCTCAACG 314  
DB 268 GCGGCGGAGACTGCTGCTGGTACTCAACCTCTGCGGCGGAGACTGCTGCTCAACG 327  
QY 315 CTATCCCTGTGCTGCTGGCGCTGGCTGAGAGCGCTGCTGCGGCCGCTTGGCT 374  
DB 328 CTATCCCTGTGCTGCTGGCGCTGGCTGAGAGCGCTGCTGCTGCGGCCGCTTGGCT 387  
QY 375 GCCACCTGCTCTTCTTACGTATGACCTTGACCGG 408  
DB 388 GCCACCTGCTCTTCTTACGTATGACCTTGACCGG 421

RESULT 5  
LOCUS A1469384/ 442 bp mRNA linear EST 14-APR-1999  
DEFINITION tm08a12.x1 NCI CGAP Col4 Homo sapiens cDNA clone IMAGE:2155966 3'  
similar to contains Alu repetitive element; contains element THR  
repetitive element ;, mRNA sequence.  
ACCESSION A1469384.1 GI:4331474  
VERSION A1469384.1  
KEYWORDS EST.  
SOURCE Homo sapiens (human)

ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
1 (bases 1 to 442)  
NCI-CCAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
Unpublished (1997)  
JOURNAL  
Contact: Robert Strausberg, Ph.D.  
Email: [cgaps-remail.nih.gov](mailto:cgaps-remail.nih.gov)  
Tissue Procurement: Christopher Mookaluk, M.D., Ph.D., Michael R. Emert-Buck, M.D., Ph.D.  
cDNA Library Preparation: Life Technologies, Inc.  
DNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CCAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:  
[www.bio.1nl.gov/bdtp/image/image.html](http://www.bio.1nl.gov/bdtp/image/image.html)  
Insert length: 777 Std Error: 0.00  
Seq primer: -40UP from G1bco  
High quality sequence stop: 401.  
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/clone="IMAGE:2155966"  
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/lab\_host="DH10B"  
/clone\_id="NCI-CCAP Col4"  
/note="Organ: colon; Vector: pCMV-SPORT6; Site 1: SalI; Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.7 Kb. Life Technologies catalog #: 11531-019"

ORIGIN  
Query Match 9.9%; Score 172; DB 9; Length 442;  
Best Local Similarity 100.0%; Pred. No. 6.3e-25;  
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1286 AAGTTTATATATTTTCCCTTTATATAAAGATTTGTGGCCAGTGTGCTTATGC 1345  
DB 442 AAGTTTATATATTTTCCCTTTATATAAAGATTTGTGGCCAGTGTGCTTATGC 383  
QY 1346 CTGTAATCCAGAGAGTTGGAGGCTGAGGTGATCACTGAGGTGAGATTGCA 1405  
DB 382 CTGTAATCCAGAGAGTTGGAGGCTGAGGTGATCACTGAGGTGAGATTGCA 323  
QY 1406 GACCAACTGACCAACATGTGTGAGACCCCGCTCTTACTATAAATAAATAA 1457  
DB 322 GACCAACTGACCAACATGTGTGAGACCCCGCTCTTACTATAAATAAATAA 271

RESULT 6  
LOCUS BF924587 291 bp mRNA linear EST 19-JAN-2001  
DEFINITION IIS-NT0228-271100-271-h06 NT0228 Homo sapiens cDNA, mRNA sequence.  
ACCESSION BF924587  
VERSION BF924587.1 GI:12320473  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
1 (bases 1 to 291)  
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Borduin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.J.  
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags



JOURNAL  
MEDLINE  
20202663  
10737800  
COMMENT  
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)  
Contact: Simpson A.J.G.  
Laboratory of Cancer Genetics  
Ludwig Institute for Cancer Research  
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil  
Tel: +55-11-2704922  
Fax: +55-11-2707001  
Email: asimpson@ludwig.org.br

FEATURES  
source  
1. .291  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/dev\_stage="Adult"  
/clone\_1lb="NT0228"  
/note="Organ: nervous tumor; Vector: puc18; Site\_1: Sma1;  
Site\_2: Sma1; A mini-library was made by cloning products  
derived from ORSTES PCR (U.S. Letters Patent application  
No. 196,716 - Ludwig Institute for Cancer Research)  
profiles into the pUC 18 vector. Reverse transcription of  
tissue mRNA and cDNA amplification were performed under  
low stringency conditions."  
Location/Qualifiers  
High quality sequence stop: 290.

## ORIGIN

Query Match  
Best Local Similarity 100.0%; Pred. No. 0.00039; Length 291;  
Matches 67; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1344 GCCTGTATCCAGCACTTTGGAGGCTGAGTGGTGATCAGTCAAGTTC 1403  
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Db 137 GCCTGTATCCAGCACTTTGGAGGCTGAGTGGTGATCAGTCAAGTTC 196

QY 1404 GAGACCA 1410  
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Db 197 GAGACCA 203

RESULT 7 451 bp mRNA linear EST 22-MAY-1995  
R44593  
LOCUS Y923612.81 Soares infant brain INIB Homo sapiens cDNA clone  
DEFINITION IMAGE:33011 3' similar to contains Alu repetitive element; mRNA  
sequence.  
R44593  
VERSION R44593.1 GI:823981  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE  
AUTHORS Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Matra,M.,  
Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F.,  
Treveskie,E., Waterston,R., Williamson,A., Wohlmann,P. and  
Wilson,R.  
TITLE The WashU-Merck EST Project  
JOURNAL Unpublished (1995)  
COMMENT On May 9, 1995 this sequence version replaced gi:803317.  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810

Email: est@watson.wustl.edu  
Insert Size: 1494  
High quality sequence stops: 370 Source: IMAGE Consortium, LNL  
This clone is available royalty-free through LNL; contact the  
IMAGE Consortium (info@image.lnl.gov) for further information.  
Insert Length: 1494 Std Error: 0.00  
Seq primer: Promega -21m3  
High quality sequence stop: 370.  
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/db\_xref="GDB:405358"  
/db\_xref="taxon:9606"  
/clone="IMAGE:33011"  
/sex="female"  
/dev\_stage="73 days post natal"  
/lab\_host="DH10B (ampicillin resistant)"  
/clone\_1lb="Soares infant brain INIB"  
/note="Organ: whole brain; Vector: Lefmid BA; Site\_1: Not  
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I - oligo(dT) primer [5];  
AAGTGAAGAAATTCGGCGCCGAGATTTTCTTTTCTTTT 3';  
double-stranded cDNA was ligated to Hind III adaptors  
(Pharmacia), digested with Not I and directionally cloned  
into the Not I and Hind III sites of the Lefmid BA vector.  
Library went through one round of normalization. Library  
constructed by Bento Soares and M. Fatima Bonaldo."

## ORIGIN

Query Match  
Best Local Similarity 100.0%; Pred. No. 0.00064; Length 451;  
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1344 GCCTGTATCCAGCACTTTGGAGGCTGAGTGGTGATCAGTCAAGTTC 1403  
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Db 275 GCCTGTATCCAGCACTTTGGAGGCTGAGTGGTGATCAGTCAAGTTC 216

QY 1404 GAGAC 1408  
|||||  
Db 215 GAGAC 211

RESULT 8 602 bp mRNA linear EST 02-JUN-2000  
AW973354  
LOCUS EST385497 MAGE resequences, MAGM Homo sapiens cDNA, mRNA sequence.  
DEFINITION AW973354  
ACCESSION AW973354.1 GI:8164576  
VERSION  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

REFERENCE  
AUTHORS Hegde,P., Qi,R., Abernathy,K., Dharap,S., Gaepard,R., Gay,C.,  
Holt,I.B., Saeed,A.I., Sharov,V., Lee,N.H., Yeatman,T.J. and  
Quackenbush,J.  
TITLE Assessment of gene expression patterns in a model of colon tumor  
metastasis using a 19,200 element cDNA microarray  
JOURNAL Unpublished (2000)  
COMMENT Contact: John Quackenbush  
The Institute for Genomic Research  
9712 Medical Center Dr., Rockville, MD 20850, USA  
Tel: 301 838 3528  
Fax: 301 838 0208  
Email: johnq@tigr.org  
Plate: 318  
Seq primer: Forward.

FEATURES  
source  
1. .602  
/organism="Homo sapiens"  
/mol\_type="mRNA"

ORIGIN /db xref="taxon:9606"  
/clone lib="MAGE resequences, MAGM"  
/note="Vector: pBluescriptSKm"

Query Match 3.4%; Score 60; DB 10; Length 602;  
Best Local Similarity 100.0%; Pred. No. 0.0048;  
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1351 ATCCGACAGTTGGAGGCTGAGTGGGTGATCACCCTGAGTCAGAGCTTGCAGACCA 1410  
|||||  
253 ATCCGACAGTTGGAGGCTGAGTGGGTGATCACCCTGAGTCAGAGCTTGCAGACCA 194

RESULT 9  
AA558426 229 bp mRNA linear EST 08-SEP-1997  
LOCUS nk8c09.s1 NCI CGAP GC2 Homo sapiens cDNA clone IMAGE:1015792 3'  
DEFINITION similar to contain Alu repetitive element; mRNA sequence.  
ACCESSION AA558426  
VERSION AA558426.1 GI:2328903  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
TITLE Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgaps-remail.nih.gov  
Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
CDNA Library Preparation: Stratagene, Inc., David B. Krizman,  
Ph.D.  
CDNA Library Arraying: Greg Lennon, Ph.D.  
DNA sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
www-bio.11nl.gov/bdrip/image/image.html  
Insert Length: 1192 Std Error: 0.00  
Seq primer: -40ml3 fwd. RT from Amersham  
High quality sequence stop: 218.  
Location/Qualifiers  
1. .229  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1015792"  
/issue\_type="germ cell tumor"  
/lab\_host="SOLR (kanamycin resistant)"  
/clone\_lib="NCI CGAP GC2"  
/note="Vector: Bluescript SK-; Site 1: SCOR1; Site 2:  
XhoI; Cloned unidirectionally. Primer: Oligo dT. Bulk  
germ cell tumor. 5' adaptor sequence: 5' GATTTCGGCAGCAG 3'  
3' adaptor sequence: 5' CTCGAGTTTCTTTTCTTTT 3'  
Average insert size: 1.2 Kb."

ORIGIN

Query Match 3.4%; Score 59; DB 9; Length 229;  
Best Local Similarity 100.0%; Pred. No. 0.018;  
Matches 59; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1352 TCCGACAGTTGGAGGCTGAGTGGGTGATCACCCTGAGTCAGAGCTTGCAGACCA 1410  
|||||  
Db 229 TCCGACAGTTGGAGGCTGAGTGGGTGATCACCCTGAGTCAGAGCTTGCAGACCA 171

RESULT 10  
BX506188/c 446 bp mRNA linear EST 04-SEP-2003  
LOCUS BX506188

DEFINITION DKFZp686C04221.r1 686 (synonym: hlc3) Homo sapiens cDNA clone  
ACCESSION DKFZp686C04221.5', mRNA sequence.  
VERSION BX506188  
KEYWORDS BX506188.1 GI:32037167  
SOURCE EST.  
ORGANISM Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 446)  
Foustka, A., Albert, R., Moosmayer, P., Schnupp, I., Wellenreuther, R.,  
Wiemann, S.,  
Wiemann, H.W., Well, B., Amid, C., Osauger, A., Foto, G., Han, M. and  
Miesmann, S.  
EST (Poussta, A., Albert, R., Moosmayer, P., Schnupp, I.,  
Wellenreuther, R., et al.)  
Unpublished (2003)  
CONTACT: MIPS  
MIPS Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany  
This is the 5' sequence of the clone insert  
clone from S. Wiemann, Molecular Genome Analysis, German Cancer  
Research Center (DKFZ), Email s.wiemann@dkfz-heidelberg.de;  
sequenced by DKFZ (German Cancer Research Center,  
Heidelberg/Germany) within the cDNA sequencing consortium of the  
German Genome Project.  
No s1 sequence available.  
This clone (DKFZp686C04221) is available at the RZPD in Berlin.  
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059  
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.  
Location/Qualifiers  
1. .446  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="DKFZp686C04221"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/clone\_lib="686 (synonym: hlc3)"  
/note="Vector: pTriplex2; Site\_1: sf11A; Site\_2: sf11B;  
cDNA-collection"

ORIGIN

Query Match 3.4%; Score 59; DB 13; Length 446;  
Best Local Similarity 100.0%; Pred. No. 0.0098;  
Matches 59; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1345 CCTGTATCCGACAGCTTGGAGGCTGAGTGGGTGATCACCCTGAGTCAGAGCTTC 1403  
|||||  
Db 294 CCTGTATCCGACAGCTTGGAGGCTGAGTGGGTGATCACCCTGAGTCAGAGCTTC 236

RESULT 11  
BE061278 637 bp mRNA linear EST 09-JUN-2000  
LOCUS BE061278  
DEFINITION I10-BT0168-031199-135-a05 BT0168 Homo sapiens cDNA, mRNA sequence.  
ACCESSION BE061278  
VERSION BE061278.1 GI:8405928  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 637)  
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Britones, M.R.,  
Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,  
Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bata, G.S., Simpson, D.H.,  
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V.,  
O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and  
Simpson, A.J.  
Shotgun sequencing of the human transcriptome with ORF expressed  
sequence tags  
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)  
20202663

## PUBMED

10737800

Contact: Simpson A.J.G.

Laboratory of Cancer Genetics  
Ludwig Institute for Cancer ResearchRua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil

Tel: +55-11-27049922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the PAPSP/LICR Human Cancer Genome  
Project. This entry can be seen in the following URL<http://www.ludwig.org.br/scripts/gethtml2.pl?tl=ctc2-ll0-B70168-021>

199-135-8056ct3-199-11-03ct4-1)

Seq primer: puc 18 forward

High quality sequence start: 17

Location/Qualifiers

## FEATURES

source

1. 637

/organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="taxon:9606"

/dev\_stage="Adult"

/clone\_1lb="B70168"

/note="Organ: breast; Vector: pUC18; Site 1: SmaI; Site 2:  
SmaI; A mini-library was made by cloning products derived  
from ORSTES PCR (U.S. Letters Patent application No.  
196,716 - Ludwig Institute for Cancer Research) profiles  
into the pUC 18 vector. Reverse transcription of tissue  
mRNA and cDNA amplification were performed under low  
stringency conditions."

## ORIGIN

Query Match 3.3%; Score 57; DB 10; Length 637;

Best Local Similarity 100.0%; Pred. No. 0.018;

Matches 57; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1340 TCATGCTGTAATCCAGCAGTTGGAGGCTGAGTGGTGAATCCTGAGGTCA 1396

Db 376 TCATGCTGTAATCCAGCAGTTGGAGGCTGAGTGGTGAATCCTGAGGTCA 432

## RESULT 12

CD644362 779 bp mRNA linear EST 17-JUN-2003

LOCUS CD644362

DEFINITION AGENCOURT\_14553420 NIA Human H1 Embryonic Stem Cell cDNA Library

(Long) Homo sapiens cDNA clone IMAGE:30424873 5', mRNA sequence.

ACCESSION CD644362

VERSION CD644362.1 GI:31816168

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 779)

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Daniela S. Gerhard, Ph.D.

Office of Cancer Genomics

National Cancer Institute / NIH

Bldg. 31 Rm10A07 Bethesda, MD 20892

Email: egabbs-remail.nih.gov

Tissue Procurement: Irene Glulis and Mahendra Rao, NIA

CDNA Library Preparation: Yulan Piao and Minoru Ko

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC c

One distribution information

can be found through the I.M.A.G.E. Consortium/LNL at:

<http://image.lnl.gov>

Plate: NDAMS08 row: d column: 02

High quality sequence stop: 650.

Location/Qualifiers

1. 779

## FEATURES

source

/organism="Homo sapiens"

/mol\_type="mRNA"

/db\_xref="taxon:9606"

/clone="IMAGE:30424873"

/issue\_type="Embryonic Stem cells"

/cell\_line="WA01"

/lab\_host="DH10B (T1 phage-resistant)"

/clone\_1lb="NIA Human H1 Embryonic Stem Cell cDNA Library

(Long)"

/note="Vector: pCMV-Sport6; Site 1: NotI; Site 2: SalI;

This is a long-fragment enriched cDNA library (Genome

Res. 11: 1553-1558 (2001). [PMID: 11544191] from WA01

cell line. Undifferentiated human ES cell line WA01/H1

was obtained from WICell Research Institute, Inc.,

Madison, WI, cultured according to their instructions, on

MEF feeders. They formed round colonies with defined edges

and were positive for alkaline phosphatase, SSEA-4, OCT3,

OCT4, REX1, UTR, TERT, SOX2, CX43 and CX45. They are

negative for GAP42, GAP43, PDX1, NCM, MSX1, FLT3, SSEA-1,

TUBB3, NES, GFAP, and BOWS. When confluent (18-10 days

after plating), the ES cells from 4 x 6cm dishes were

treated with 1 mg/ml collagenase, type IV

(Invitrogen/GIBCO) for 5-10 min and gently scraped off

with 5 ml pipette. RNA was purified with TRIzol Reagent

from Invitrogen. Protocol ref: Genome Res. 11: 1553-1558

(2001). [PMID: 11544191] Double-stranded cDNAs were

synthesized with an Oligo(dT) primer (Invitrogen:

5'-pGCTAGTCTGTAATCCAGCAGTTGGAGGCTGAGTGGTGAATCCTGAGGTCA

3'-) from

3.4g of total RNA, treated with T4 DNA polymerase, and

purified by ethanol-precipitation. The cDNAs were ligated

to linc-linker L1-SalI, purified by phenol/chloroform

extraction, and separated from free linkers by

Centricon-100 column. Then, the cDNAs were amplified by

long-range high fidelity PCR using Ex Taq polymerase

(Takara) with a primer SalI-S for 25 cycles. The products

were purified by phenol/chloroform extraction and

Centricon-100 column. The cDNAs were digested with SalI

and NotI enzymes and cloned into SalI/NotI site of

pCMV-Sport6 plasmid vector. The average insert size is

about 3.6kb."

## ORIGIN

Query Match 3.3%; Score 57; DB 14; Length 779;

Best Local Similarity 100.0%; Pred. No. 0.015;

Matches 57; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1340 TCATGCTGTAATCCAGCAGTTGGAGGCTGAGTGGTGAATCCTGAGGTCA 1396

Db 356 TCATGCTGTAATCCAGCAGTTGGAGGCTGAGTGGTGAATCCTGAGGTCA 300

## RESULT 13

CB448183 637 bp mRNA linear EST 26-MAR-2003

LOCUS CB448183

DEFINITION 7022244 MARRC 6BOV Bos taurus cDNA.5', mRNA sequence.

ACCESSION CB448183

VERSION CB448183.1 GI:29254565

KEYWORDS EST.

SOURCE Bos taurus (cow)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;

Bovidae; Bovinae; Bos.

1 (bases 1 to 637)

Smith,T.P.L., Roberts,A.J., Echterkamp,S.E., Chitko-McKown,C.G.,

Wray,J.B. and Keeler,J.W.

A second set of bovine ESTs from pooled-tissue normalized libraries

Unpublished (2003)

Contact: Smith TPL

USDA, ARS, US Meat Animal Research Center

PO Box 166, Clay Center, NE 68933-0166, USA

Tel: 402 762 4366

Fax: 402 762 4390

Email: smith@mail.marc.usda.gov  
Single pass sequencing. Bases called with phred v0.020425.c and trimmed with the aid of the trim\_alt option. Vector identified with cross\_match v0.990329.

Plate: F0Y8057 row: L column: 17  
Seq primer: GTAATACGACTCACTATGAGG.

Location/Qualifiers

1. .637

/organism="Bos taurus"  
/mol\_type="mRNA"  
/db\_xref="taxon:9913"  
/tissue\_type="pooled"  
/lab\_host="DH10B"  
/clone\_id="MARC 6BOV"  
/note="Vector: pCDNA3.1; Site 1: EcoRI; Site 2: NotI; Library made with RNA pooled from multiple tissues including liver, lung, hypothalamus, pituitary, and placenta/endometrium."

## ORIGIN

Query Match 3.2%; Score 56; DB 14; Length 637;  
Best Local Similarity 100.0%; Pred. No. 0.028; Indels 0; Gaps 0;  
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 857 TCCTTCTTCATCATGTGAGCCCATCATCATCATCTCTCTCATCTGATCCA 912  
|||||  
260 TCCTTCTTCATCATGTGAGCCCATCATCATCATCTCTCTCATCTGATCCA 315

RESULT 14  
BC017579 1287 bp mRNA linear HTC 04-MAR-2003  
LOCUS Homo sapiens, clone IMAGE:4107433, mRNA.

DEFINITION BC017579  
ACCESSION BC017579  
VERSION BC017579.1 GI:170684402  
KEYWORDS HTC.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 1287)

Strausberg, R.

Direct Submission  
Submitted (21-NOV-2001) National Institutes of Health, Mammalian

Gene Collection (MGC), Cancer Genomics Office, National Cancer  
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,

USA  
NIH-MGC Project URL: <http://mgc.nci.nih.gov>  
Contact: MGC help desk  
Email: [cgabs-remail.nih.gov](mailto:cgabs-remail.nih.gov)

## REMARK

## COMMENT

Tissue Procurement: ATCC  
cDNA Library Preparation: CLONTECH Laboratories, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
DNA Sequencing by: Institute for Systems Biology  
<http://www.systemsbio.org>

contact: [amadatsystemsbio.org](mailto:amadatsystemsbio.org)  
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketterman, Anuradha

Madan, Stephanie Rodriguez, Amy Sanchez and Michelle Whitting  
Clone distribution: MGC clone distribution information can be found

through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>  
Series: IRAL Plate: 32 Row: C Column: 11

This clone has the following problem: retained intron.

Location/Qualifiers

1. .1287

## FEATURES

## SOURCE

/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:4107433"  
/tissue\_type="bone marrow, acute myelogenous leukemia"  
/clone\_id="NIH\_MGC\_55"  
/lab\_host="DH10B"  
/note="Vector: pDNR-LIB"

## ORIGIN

Query Match 3.2%; Score 56; DB 11; Length 1287;  
Best Local Similarity 100.0%; Pred. No. 0.015; Indels 0; Gaps 0;  
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1516 CAGAGAAATCTCTTGAACCTGGAGGACGAGTTGACATGACCCGAGATGTGCCA 1571  
|||||  
Db 1164 CAGAGAAATCTCTTGAACCTGGAGGACGAGTTGACATGACCCGAGATGTGCCA 1219

RESULT 15  
BU660876 208 bp mRNA linear EST 30-SEP-2002  
LOCUS BU660876  
DEFINITION c165d10.21 Hembase: Erythroid Precursor Cells (LCB:c1 library) Homo

sapiens cDNA clone c165d10 5', mRNA sequence.  
BU660876  
VERSION BU660876.1 GI:23373058  
KEYWORDS EST.

SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 208)

Gubin, A.N., Lee, Y.T., Bouffard, G.G. and Miller, J.L.

Gene Expression in Human Erythroid Precursor Cells  
Unpublished (2002)

Contact: Jeffery L. Miller  
Laboratory of Chemical Biology

National Institute of Diabetes and Digestive and Kidney Diseases  
Building 10, Room 9B17, National Institutes of Health, Bethesda, MD

20892, USA  
Tel: 301 402 2373  
Fax: 301 435 5148

Email: [jm7ef@nih.gov](mailto:jm7ef@nih.gov)

The c1 library was constructed by Alexander Gubin, Ph.D. in the  
Laboratory of Chemical Biology, NIDDK, NIH. DNA Sequencing and/or

analyses by National Institutes of Health Intramural Sequencing  
Center (NISC). More information available at:

<http://hembase.nidk.nih.gov>  
Plate: 65 row: d column: 10

Seq primer: 5' lambda-Triplex2 Sequencing Primer.

## FEATURES

## SOURCE

1. .208

/organism="Homo sapiens"  
/mol\_type="mRNA"

/db\_xref="taxon:9606"  
/clone="c165d10"

/sex="unknown"

/tissue\_type="blood"

/cell\_type="Erythroid Precursor Cells"

/cell\_line="Primary Culture of Peripheral Blood

Mononuclear Cells"

/dev\_stage="Precursor erythroblasts; GPP++"

/lab\_host="DH5alpha"

/clone\_id="Hembase; Erythroid Precursor Cells (LCB:c1

library)"

/note="Organ: blood; Vector: pTriplex2; Site 1: SfiI;  
Site 2: SfiI; A complementary DNA (cDNA) library from

human erythroid precursor cells was constructed using

SMART PCR (polymerase chain reaction) cDNA library

Construction Kit (Clontech, Palo Alto, CA) according to

the manufacturer's directions, but with slight

modifications. Briefly, reverse transcription was

performed in the presence of 1 umol/l peptide nucleic acid

(PNA) oligos

(N-terminal)-biotin-GTC-CAC-CCG-AGG-CTT-G-(C-terminal) and

(N-terminal)-biotin-C(T/C)T-GAA-GTT-CTC-AGG-A-(C-terminal)

. Synthesized cDNA was digested with SfiI and

size-selected on a 1% agarose gel (>800bp). Large-scale

sequencing of the library was performed by the NIH

Intramural Sequencing Center (NISC);

<http://www.nisc.nih.gov/>."

ORIGIN

Query Match 3.2%; Score 55; DB 13; Length 208;  
 Best Local Similarity 100.0%; Pred. No. 0.12;  
 Matches 55; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1527 CTGAACCTGGAGGCGAGAGTTGCAATGAGCCGAGATCCGTCATTCGCACTCCA 1581  
 DB 128 CTGAACCTGGAGGCGAGAGTTGCAATGAGCCGAGATCCGTCATTCGCACTCCA 182

Search completed: October 1, 2004, 03:51:44  
 Job time : 4109.41 secs



Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model.

Run on: September 30, 2004, 21:45:48 ; Search time 123.742 Seconds  
(without alignments)  
6996.194 Million cell updates/sec

Title: US-10-077-698-5

Perfect score: 1560

Sequence: 1 tctgccaagctcagcgaagc.....aaaaaaaaaaaaaaaaa 1560

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA:\*

- 1: /cgn2\_6/prodata/2/ina/5A.COMB.seq:\*
- 2: /cgn2\_6/prodata/2/ina/5B.COMB.seq:\*
- 3: /cgn2\_6/prodata/2/ina/6A.COMB.seq:\*
- 4: /cgn2\_6/prodata/2/ina/6B.COMB.seq:\*
- 5: /cgn2\_6/prodata/2/ina/6C.COMB.seq:\*
- 6: /cgn2\_6/prodata/2/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1560	100.0	1560	US-09-261-5998-5	Sequence 5, Appl
2	1560	100.0	1560	US-09-456-455A-5	Sequence 5, Appl
3	181	11.6	181	US-09-456-455A-14	Sequence 14, Appl
4	138	8.8	138	US-09-456-455A-15	Sequence 15, Appl
5	44	2.8	1743	US-09-261-5998-2	Sequence 2, Appl
6	44	2.8	1743	US-09-456-455A-2	Sequence 2, Appl
7	38	2.4	241	US-09-328-111-472	Sequence 472, App
8	26	1.7	753	US-09-232-191-14	Sequence 14, Appl
9	26	1.7	753	US-09-232-200-14	Sequence 14, Appl
10	26	1.7	753	US-09-232-197-14	Sequence 14, Appl
11	26	1.7	753	US-09-232-201-14	Sequence 14, Appl
12	26	1.7	753	US-09-232-195-14	Sequence 14, Appl
13	26	1.7	1560	US-09-261-5998-5	Sequence 5, Appl
14	26	1.7	1560	US-09-456-455A-5	Sequence 5, Appl
15	26	1.7	16442	US-08-781-891-208	Sequence 208, App
16	26	1.7	16442	US-09-618-166-208	Sequence 208, App
17	25	1.6	624	US-09-385-982-414	Sequence 414, App
18	25	1.6	694	US-09-148-545-23	Sequence 23, Appl
19	25	1.6	960	US-09-248-335-57	Sequence 57, Appl
20	25	1.6	994	US-09-366-887A-5	Sequence 5, Appl
21	25	1.6	1174	US-10-154-595-49	Sequence 49, Appl
22	25	1.6	1243	US-09-731-924A-1	Sequence 1, Appl
23	25	1.6	1244	US-08-916-442-1	Sequence 1, Appl
24	25	1.6	1244	US-09-317-641-1	Sequence 1, Appl
25	25	1.6	1513	US-09-716-129-23	Sequence 23, Appl
26	25	1.6	1545	US-09-559-023-1	Sequence 1, Appl
27	25	1.6	1594	US-09-016-434-1059	Sequence 1059, App

28	25	1.6	1799	3	US-09-329-633A-1	Sequence 1, Appl
29	25	1.6	1799	4	US-09-079-029-2	Sequence 2, Appl
30	25	1.6	2140	3	US-09-058-389A-6	Sequence 6, Appl
31	25	1.6	2140	4	US-09-611-781-6	Sequence 6, Appl
32	25	1.6	2880	3	US-09-115-954-3	Sequence 3, Appl
33	25	1.6	2920	4	US-10-158-847-137	Sequence 137, App
34	25	1.6	3842	3	US-09-115-954-7	Sequence 7, Appl
35	25	1.6	3912	3	US-09-115-954-1	Sequence 1, Appl
36	25	1.6	11050	4	US-10-204-708-86	Sequence 86, Appl
37	25	1.6	49136	3	US-09-422-869-1	Sequence 1, Appl
38	25	1.6	81001	4	US-09-750-580-1	Sequence 1, Appl
39	25	1.6	148567	4	US-09-801-876B-3	Sequence 3, Appl
40	25	1.6	148567	4	US-10-254-869-3	Sequence 3, Appl
41	25	1.6	152331	3	US-09-128-155-16	Sequence 15, Appl
42	25	1.6	176373	3	US-09-128-155-17	Sequence 17, Appl
43	25	1.6	246240	3	US-08-724-394A-20	Sequence 20, Appl
44	25	1.6	246240	2	US-08-724-394A-21	Sequence 21, Appl
45	25	1.6	246240	2	US-08-724-394A-22	Sequence 22, Appl

#### ALIGNMENTS

RESULT 1  
US-09-261-5998-5  
Sequence 5, Application US/09261599B

Patent No. 6395877

GENERAL INFORMATION:

APPLICANT: Gluckmann, Maria A.  
TITLE OF INVENTION: 14273 Receptor, A No. 6395877 G-Protein Coupled Receptor

FILE REFERENCE: 5800-48, 035800/177086

CURRENT APPLICATION NUMBER: US/09/261,599B

CURRENT FILING DATE: 1999-02-26

PRIOR FILING DATE: 1998-06-30

PRIOR APPLICATION NUMBER: 09/107,761

PRIOR FILING DATE: 1998-12-30

NUMBER OF SEQ ID NOS: 7

SOFTWARE: Patent In Ver. 2.1

SEQ ID NO 5

LENGTH: 1560

TYPE: DNA

ORGANISM: Murine ortholog

US-09-261-5998-5

Query Match 100.0%; Score 1560; DB 4; Length 1560;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1560; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TTGCCAAGCTCAGCGTGAAGCTCTTCCACTGCAATCTCACAGAGGGGTTCAATGAGTGC	60
Db	1	TTGCCAAGCTCAGCGTGAAGCTCTTCCACTGCAATCTCACAGAGGGGTTCAATGAGTGC	60
Qy	61	TTGACCCATGATGACCACTGAGCTTCCGGGTTTACCGAATCTTCACAGGGAG	120
Db	61	TTGACCCATGATGACCACTGAGCTTCCGGGTTTACCGAATCTTCACAGGGAG	120
Qy	121	TCGATGACCTCTTGACAGCAGAGCGCGAGCTCCGCAATCTTCCGAGCGCTGG	180
Db	121	TCGATGACCTCTTGACAGCAGAGCGCGAGCTCCGCAATCTTCCGAGCGCTGG	180
Qy	181	GCCGGGCGCCGCGATGCTCCCTGAGTGTGACAGAGCGGCGCTGCTCCGACA	240
Db	181	GCCGGGCGCCGCGATGCTCCCTGAGTGTGACAGAGCGGCGCTGCTCCGACA	240
Qy	241	CCCTGAGCAAGTCATGCGACCACTTCCCTTCTGAGTGTGACAGAGCGGCGAC	300
Db	241	CCCTGAGCAAGTCATGCGACCACTTCCCTTCTGAGTGTGACAGAGCGGCGAC	300
Qy	301	GGTTGAGTGTGAGCGTGTGAGAGCAGCGCTTGGAGACTCATCTTGTGTCTCACTGC	360
Db	301	GGTTGAGTGTGAGCGTGTGAGAGCAGCGCTTGGAGACTCATCTTGTGTCTCACTGC	360

QY 361 TGGGCAACGTCGTCTAGTCGTGGGCGCCCGTCGAGGCGTCAAGCA 420  
DB 361 TGGGCAACGTCGTCTAGTCGTGGGCGCCCGTCGAGGCGTCAAGCA 420  
QY 421 GCGTCGTCAACCTCTTCTGCGGGAATTTCTTTCACAGGCGCATCCCTTAAGTC 480  
DB 421 GCGTCGTCAACCTCTTCTGCGGGAATTTCTTTCACAGGCGCATCCCTTAAGTC 480  
QY 481 TCGTCGTGCGCTGAGCACTGAGGCGCTGTTGGGGCCCGTCGTGCACTGCTCTTCT 540  
DB 481 TCGTCGTGCGCTGAGCACTGAGGCGCTGTTGGGGCCCGTCGTGCACTGCTCTTCT 540  
QY 541 ACGTGATGACATATAGGCGGAGCGCTCAAGATCTCACTCACTGCGCGGTGACCTTGAGC 600  
DB 541 ACGTGATGACATATAGGCGGAGCGCTCAAGATCTCACTCACTGCGCGGTGACCTTGAGC 600  
QY 601 GCATGTGTGTCATGTGCGCTCCGCGCGGCTTTGAGCGGCGCGGCGGAGCTCAAG 660  
DB 601 GCATGTGTGTCATGTGCGCTCCGCGCGGCTTTGAGCGGCGCGGCGGAGCTCAAG 660  
QY 661 CGGCACTGCTGGCTTATATAGGAGTTAATGCGGCTCGCGGCGCTGCGCTGCACTCT 720  
DB 661 CGGCACTGCTGGCTTATATAGGAGTTAATGCGGCTCGCGGCGCTGCGCTGCACTCT 720  
QY 721 TGTTCGCGGTGTCTCCGCGAGCGCTTCCGCGGAGCAAGAAATTCGATTTGCACT 780  
DB 721 TGTTCGCGGTGTCTCCGCGAGCGCTTCCGCGGAGCAAGAAATTCGATTTGCACT 780  
QY 781 TGGATTGGCCCAACCGCATAGAGAAATCTCATGGATGTGTTTTTGAAGCTTTGAAC 840  
DB 781 TGGATTGGCCCAACCGCATAGAGAAATCTCATGGATGTGTTTTTGAAGCTTTGAAC 840  
QY 841 TCCGTCGTCGCGGAGCTGTCTATGTCATGTCATCTCAAAATTTTACAGTTCAGAG 900  
DB 841 TCCGTCGTCGCGGAGCTGTCTATGTCATGTCATCTCAAAATTTTACAGTTCAGAG 900  
QY 901 CATGCGGGAAGAGCTTACGTCGAGCTTGAGTACTCTGAGGCGCACAGATCCGAGTGT 960  
DB 901 CATGCGGGAAGAGCTTACGTCGAGCTTGAGTACTCTGAGGCGCACAGATCCGAGTGT 960  
QY 961 CCCAACAAGACTACCGACTCTTCCGAGCGCTTCTGCTCATGTTCTTCTTCATCA 1020  
DB 961 CCCAACAAGACTACCGACTCTTCCGAGCGCTTCTGCTCATGTTCTTCTTCATCA 1020  
QY 1021 TGTGGAATCCCATATATACATCACTCTCTCATCTTGAATCCAAACTCCGAGAGAC 1080  
DB 1021 TGTGGAATCCCATATATACATCACTCTCTCATCTTGAATCCAAACTCCGAGAGAC 1080  
QY 1081 TGTGTCATCTGCGCATCTCTTCTTCTGAGTGTGAGCTTCACTTGGCACTCTGCC 1140  
DB 1081 TGTGTCATCTGCGCATCTCTTCTTCTGAGTGTGAGCTTCACTTGGCACTCTGCC 1140  
QY 1141 TAAACCCCATATCTGTACAACTGTGCTGTCAAGAAAGAAATGAGATTTTGTGCT 1200  
DB 1141 TAAACCCCATATCTGTACAACTGTGCTGTCAAGAAAGAAATGAGATTTTGTGCT 1200  
QY 1201 GCTTCTTTTTCAGAGAGGAGCAATTTTACAGATAGCTGTCAAGGAGAAATGACT 1260  
DB 1201 GCTTCTTTTTCAGAGAGGAGCAATTTTACAGATAGCTGTGTCAAGGAGAAATGACT 1260  
QY 1261 TGTCTGTATATTCAGAGTAACTAGCTCTGTGTCAGAGTGAACAGGTCGTGCAATG 1320  
DB 1261 TGTCTGTATATTCAGAGTAACTAGCTCTGTGTCAGAGTGAACAGGTCGTGCAATG 1320  
QY 1321 GGGAGTTAATCTTCAAGGAAAGCCCAAGTCGCGCTTAAATAACCGACTTCCA 1380  
DB 1321 GGGAGTTAATCTTCAAGGAAAGCCCAAGTCGCGCTTAAATAACCGACTTCCA 1380  
QY 1381 ACAGACAGGATCTGAGAGGAGCAAAATTAAGAAATGATGCTCAGTATAAATATTTT 1440  
DB 1381 ACAGACAGGATCTGAGAGGAGCAAAATTAAGAAATGATGCTCAGTATAAATATTTT 1440  
QY 1441 TCCTTAAAGAACTTCTATGGGTTCCTTTTGTGAACCTTTTAAAGTGTGTAATAT 1500

DB 1441 TCCTTAAAGAACTTCTATGGGTTCCTTTTGTGAACCTTTTAAAGTGTGTAATAT 1500  
QY 1501 GATCTAGTATATATTTTATTTATTAAGCGTGTCCACAAAAAATTTTAAAAA 1560  
DB 1501 GATCTAGTATATATTTTATTTATTAAGCGTGTCCACAAAAAATTTTAAAAA 1560  
RESULT 2  
US-09-456-455A-5  
; Sequence 5, Application US/09456455A  
; Patent No. 6448005  
; GENERAL INFORMATION:  
; APPLICANT: Glucksmann, Maria A.  
; APPLICANT: Teal, Fong-Ying  
; TITLE OR INVENTION: 14273 Receptor, A No. 6448005el G-Protein Coupled Receptor  
; FILE REFERENCE: NMI-204CP3  
; CURRENT APPLICATION NUMBER: US/09/456, 455A  
; PRIOR FILING DATE: 1999-12-08  
; PRIOR APPLICATION NUMBER: 09/107,761  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: 09/223,538  
; PRIOR FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1560  
; TYPE: DNA  
; ORGANISM: Murine ortholog  
US-09-456-455A-5  
Query Match 100.0%; Score 1560; DB 4; Length 1560;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1560; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGCAAGCTCAGCGTAAGCTCTTTCATGTCATCTCAAGAAAGGAGTTCAGAGTGC 60  
DB 1 TTGCAAGCTCAGCGTAAGCTCTTTCATGTCATCTCAAGAAAGGAGTTCAGAGTGC 60  
QY 61 TTTCACACATCAGAGACACATCCAGACTGTGTCGCGCTTTTCCGGAATCTTCAGAGCGGAG 120  
DB 61 TTTCACACATCAGAGACACATCCAGACTGTGTCGCGCTTTTCCGGAATCTTCAGAGCGGAG 120  
QY 61 TTTCACACATCAGAGACACATCCAGACTGTGTCGCGCTTTTCCGGAATCTTCAGAGCGGAG 120  
DB 61 TTTCACACATCAGAGACACATCCAGACTGTGTCGCGCTTTTCCGGAATCTTCAGAGCGGAG 120  
QY 121 TCGATGACCTCTTGAAGCAGCCAGAGCGCGAGCTCCGCACTTCCGGAAGCGGTGG 180  
DB 121 TCGATGACCTCTTGAAGCAGCCAGAGCGCGAGCTCCGCACTTCCGGAAGCGGTGG 180  
QY 181 GCCGGGCGCCCGGATGTCTTGAAGTGTGCAAGAGAGGAGCGCTGCTCGACA 240  
DB 181 GCCGGGCGCCCGGATGTCTTGAAGTGTGCAAGAGAGGAGCGCTGCTCGACA 240  
QY 241 CCCGAGCAAGTCAATCGACCCACTTCCCTTCTCTGGAATGTAAGGAGGAGACAC 300  
DB 241 CCCGAGCAAGTCAATCGACCCACTTCCCTTCTCTGGAATGTAAGGAGGAGACAC 300  
QY 301 GGTGTGTGTGAAGGTGTGGAAGACACAGCTTCTGGAATCATCTTGTGTCTCACTGC 360  
DB 301 GGTGTGTGTGAAGGTGTGGAAGACACAGCTTCTGGAATCATCTTGTGTCTCACTGC 360  
QY 361 TGGGCAACGTCGTCTTGAAGTGTGAGCGCGCTGAGCGCGTGGGAGCTCAAGCA 420  
DB 361 TGGGCAACGTCGTCTTGAAGTGTGAGCGCGCTGAGCGCGTGGGAGCTCAAGCA 420  
QY 421 GCGTCGTCTCAACCTTCTTCTGCGGGAATTTCTTTCACAGGCGCATCTCTTAAGTC 480  
DB 421 GCGTCGTCTCAACCTTCTTCTGCGGGAATTTCTTTCACAGGCGCATCTCTTAAGTC 480  
QY 481 TCGTCGTGCGCTGAGCTGAGGCGCTGCTTGGGAGCGTGTGCACTGCTGCTCTTCT 540  
DB 481 TCGTCGTGCGCTGAGCTGAGGCGCTGCTTGGGAGCGTGTGCACTGCTGCTCTTCT 540  
QY 541 ACGTGATGACATATAGGCGGAGCGTCAAGATCTCACTGAGCGCGGTGAGCTGAGC 600



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Db      541 ACGTGAATGACATGAGCGGAGGCTACGATCTCACATGCGCGGCTGAGCTGAGC 600
Qy      601 GCAATGATGATCATGATGCGCTTCCGAGCGGCTTGAACGCGCGCGGCGGAGCTAGG 660
Db      601 GCAATGATGATCATGATGCGCTTCCGAGCGGCTTGAACGCGCGCGGCGGAGCTAGG 660
Qy      661 CGGCACTGCTGCTTTCATATGAGGTTACTCGGCGCTCGCGCGCTGCGCTGACATCT 720
Db      661 CGGCACTGCTGCTTTCATATGAGGTTACTCGGCGCTCGCGCGCTGCGCTGACATCT 720
Qy      721 TGTTCGCGCTGATCCGCGAGCGCTTCCGCGGCGGAGCAAGAAATTCGATTTGACAT 780
Db      721 TGTTCGCGCGCTGATCCGCGAGCGCTTCCGCGGCGGAGCAAGAAATTCGATTTGACAT 780
Qy      781 TGAATGCGCCCAACCGCATAGAGAAATCTCATGGAATGATGTTTGTGAGACTTTGA 840
Db      781 TGAATGCGCCCAACCGCATAGAGAAATCTCATGGAATGATGTTTGTGAGACTTTGA 840
Qy      841 TCGTGGTGGCGGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Db      841 TCGTGGTGGCGGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 900
Qy      901 CATCGCGGAGAGAGCTTACGCTGAGCTTGGCATCTCTGAGAGCCAGATCCGAGTGT 960
Db      901 CATCGCGGAGAGAGCTTACGCTGAGCTTGGCATCTCTGAGAGCCAGATCCGAGTGT 960
Qy      961 CCCAACAAGACTACCGACTCTTCGCGAGCTCTTCGCTCATGATGATGATGATGAT 1020
Db      961 CCCAACAAGACTACCGACTCTTCGCGAGCTCTTCGCTCATGATGATGATGATGAT 1020
Qy      1021 TGTGAGTGGCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCAT 1080
Db      1021 TGTGAGTGGCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCAT 1080
Qy      1081 TGTGATCTGCGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1140
Db      1081 TGTGATCTGCGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1140
Qy      1141 TAAACCCCATCTGATACATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Db      1141 TAAACCCCATCTGATACATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Qy      1201 GCTTCTTTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
Db      1201 GCTTCTTTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260
Qy      1261 TGTCTGTTATTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
Db      1261 TGTCTGTTATTTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
Qy      1321 GGGAGTTAATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
Db      1321 GGGAGTTAATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1380
Qy      1381 ACAGCGAGCATCTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1440
Db      1381 ACAGCGAGCATCTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1440
Qy      1441 TCCTTAAAGAACTTCTATGAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1500
Db      1441 TCCTTAAAGAACTTCTATGAGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1500
Qy      1501 GATCTAGTTAATAATTTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 1560
Db      1501 GATCTAGTTAATAATTTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 1560

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RESULT 3  
 US-09-456-455A-14  
 ; Sequence 14, Application US/09456455A  
 ; Patent No. 6448005  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Glucksmann, Maria A.

```

; APPLICANT: Tsai, Fong-Ying
; TITLE OR INVENTION: 14273 Receptor, A No. 6448005e1 G-Protein Coupled Receptor
; FILE REFERENCE: NMI-204CP3
; CURRENT APPLICATION NUMBER: US/09/456,455A
; PRIOR FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: 09/107,761
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: 09/223,538
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 181
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-456-455A-14

Query Match      11.6%; Score 181; DB 4; Length 181;
Best Local Similarity 100.0%; Pred. No. 8,7e-73;
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1021 TGTGAGTGGCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCAT 1080
Db      1 TGTGAGTGGCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCAT 60
Qy      1081 TGTGATCTGCGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1140
Db      61 TGTGATCTGCGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
Qy      1141 TAAACCCCATCTGATACATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Db      121 TAAACCCCATCTGATACATGATGATGATGATGATGATGATGATGATGATGATGAT 180
Qy      1201 G 1201
Db      181 G 181

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RESULT 4  
 US-09-456-455A-15  
 ; Sequence 15, Application US/09456455A  
 ; Patent No. 6448005  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Glucksmann, Maria A.  
 ; APPLICANT: Tsai, Fong-Ying  
 ; TITLE OR INVENTION: 14273 Receptor, A No. 6448005e1 G-Protein Coupled Receptor  
 ; FILE REFERENCE: NMI-204CP3  
 ; CURRENT APPLICATION NUMBER: US/09/456,455A  
 ; CURRENT FILING DATE: 1999-12-08  
 ; PRIOR APPLICATION NUMBER: 09/107,761  
 ; PRIOR FILING DATE: 1998-06-30  
 ; PRIOR APPLICATION NUMBER: 09/223,538  
 ; PRIOR FILING DATE: 1998-12-30  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 15  
 ; LENGTH: 138  
 ; TYPE: DNA  
 ; ORGANISM: Mus musculus

US-09-456-455A-15  
 Query Match 8.8%; Score 138; DB 4; Length 138;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-53;  
 Matches 138; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      909 AAGAGGCTTACGCTGAGCTTGGCATCTCTGAGAGCCAGACAGATCCGAGTCCCAACAA 968
Db      1 AAGAGGCTTACGCTGAGCTTGGCATCTCTGAGAGCCAGACAGATCCGAGTCCCAACAA 60
Qy      969 GACTACGACTCTTCGCGAGCTCTTCGCTGCTCATGATGATGATGATGATGATGATGAT 1028
Db      61 GACTACGACTCTTCGCGAGCTCTTCGCTGCTCATGATGATGATGATGATGATGATGAT 120

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Qy 1029 CCCATCATCATCACCATC 1046  
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Db 121 CCCATCATCATCACCATC 138

RESULT 5  
US-09-261-599B-2  
; Sequence 2, Application US/09261599B  
; Patent No. 6395877  
; GENERAL INFORMATION:  
; APPLICANT: Glucksmann, Maria A.  
; TITLE OF INVENTION: 14273 Receptor, A No. 6395877 G-Protein Coupled Receptor  
; FILE REFERENCE: 5800-4B, 035800/177086  
; CURRENT APPLICATION NUMBER: US/09/261,599B  
; CURRENT FILING DATE: 1999-02-26  
; PRIOR APPLICATION NUMBER: 09/107,761  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: 09/223,538  
; PRIOR FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 1743  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-261-599B-2

Query Match 2.8%; Score 44; DB 4; Length 1743;  
Best Local Similarity 100.0%; Pred. No. 1,6e-10;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 852 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 895  
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Db 701 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 744

RESULT 6  
US-09-456-455A-2  
; Sequence 2, Application US/09456455A  
; Patent No. 6448005  
; GENERAL INFORMATION:  
; APPLICANT: Glucksmann, Maria A.  
; APPLICANT: Tsai, Fong-Ying  
; TITLE OF INVENTION: 14273 Receptor, A No. 6448005 G-Protein Coupled Receptor  
; FILE REFERENCE: NMI-204CP3  
; CURRENT APPLICATION NUMBER: US/09/456,455A  
; CURRENT FILING DATE: 1999-12-08  
; PRIOR APPLICATION NUMBER: 09/107,761  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: 09/223,538  
; PRIOR FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 1743  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-456-455A-2

Query Match 2.8%; Score 44; DB 4; Length 1743;  
Best Local Similarity 100.0%; Pred. No. 1,6e-10;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 852 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 895  
|||||  
Db 701 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 744

RESULT 7  
US-09-328-111-472  
; Sequence 472, Application US/09328111  
; Patent No. 6262333  
; GENERAL INFORMATION:

APPLICANT: Endege, Wilson O.  
APPLICANT: Steinmann, Kathleen E.  
APPLICANT: Aetle, Jon H.  
APPLICANT: Burgess, Christopher C.  
APPLICANT: Bushnell, Steven E.  
APPLICANT: Carroll III, Eddie  
APPLICANT: Catino, Theodore J.  
APPLICANT: Derti, Adnan  
APPLICANT: Ford, Donna M.  
APPLICANT: Lewis, Marcia E.  
APPLICANT: Monahan, John E.  
APPLICANT: Schlegel, Robert  
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION  
FILE REFERENCE: CCD-257 (US)  
CURRENT APPLICATION NUMBER: US/09/328,111  
CURRENT FILING DATE: 1999-06-08  
EARLIER APPLICATION NUMBER: US 60/088,801  
EARLIER FILING DATE: 1998-06-10  
NUMBER OF SEQ ID NOS: 850  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 472  
LENGTH: 241  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-328-111-472

Query Match 2.4%; Score 38; DB 3; Length 241;  
Best Local Similarity 100.0%; Pred. No. 9,1e-08;  
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 34 ATCTCAGAGAGGGTTTCATGAGTCTTCACACCATC 71  
|||||  
Db 101 ATCTCAGAGAGGGTTTCATGAGTCTTCACACCATC 138

RESULT 8  
US-09-232-191-14  
; Sequence 14, Application US/09232191  
; Patent No. 6284487  
; GENERAL INFORMATION:  
; APPLICANT: Stahl, Andreas  
; APPLICANT: Hirsch, David J.  
; APPLICANT: Lodish, Harvey F.  
; TITLE OF INVENTION: Fatty Acid Transport Proteins  
; FILE REFERENCE: WHI97-21D3ME  
; CURRENT APPLICATION NUMBER: US/09/232,191  
; CURRENT FILING DATE: 1999-01-14  
; EARLIER APPLICATION NUMBER: 60/071,374  
; EARLIER FILING DATE: 1998-01-15  
; EARLIER APPLICATION NUMBER: 60/093,491  
; EARLIER FILING DATE: 1998-07-20  
; EARLIER APPLICATION NUMBER: 60/110,941  
; EARLIER FILING DATE: 1998-12-04  
; NUMBER OF SEQ ID NOS: 37  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 14  
; LENGTH: 753  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-232-191-14

Query Match 1.7%; Score 26; DB 3; Length 753;  
Best Local Similarity 100.0%; Pred. No. 0,025;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1535 CCTACAAAAA 1560  
|||||  
Db 726 CCTACAAAAA 751

RESULT 9  
US-09-232-200-14

Sequence 14, Application US/09232200A  
Patent No. 6286213  
GENERAL INFORMATION:  
APPLICANT: Stahl, Andreas  
APPLICANT: Hirsch, David J.  
APPLICANT: Lodish, Harvey F.  
APPLICANT: Gimeno, Ruth E.  
APPLICANT: Tartaglia, Louis A.  
TITLE OF INVENTION: FATTY ACID TRANSPORT PROTEINS  
FILE REFERENCE: WHI97-21P3MB  
CURRENT APPLICATION NUMBER: US/09/232,200A  
CURRENT FILING DATE: 1999-01-14  
EARLIER APPLICATION NUMBER: 60/071,374  
EARLIER FILING DATE: 1998-01-15  
EARLIER APPLICATION NUMBER: 60/093,491  
EARLIER FILING DATE: 1998-07-20  
EARLIER APPLICATION NUMBER: 60/110,941  
EARLIER FILING DATE: 1998-12-04  
NUMBER OF SEQ ID NOS: 105  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 14  
LENGTH: 753  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-232-200-14

Query Match 1.7%; Score 26; DB 3; Length 753;  
Best Local Similarity 100.0%; Pred. No. 0.025;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1535 CCTACAAAAA 1560  
DB 726 CCTACAAAAA 751

RESULT 10  
US-09-232-197-14  
Sequence 14, Application US/09232197A  
Patent No. 6300096  
GENERAL INFORMATION:  
APPLICANT: Stahl, Andreas  
APPLICANT: Hirsch, David J.  
APPLICANT: Lodish, Harvey F.  
APPLICANT: Gimeno, Ruth E.  
APPLICANT: Tartaglia, Louis A.  
TITLE OF INVENTION: FATTY ACID TRANSPORT PROTEINS  
FILE REFERENCE: WHI97-21P3MA  
CURRENT APPLICATION NUMBER: US/09/232,197A  
CURRENT FILING DATE: 1999-01-14  
EARLIER APPLICATION NUMBER: 60/071,374  
EARLIER FILING DATE: 1998-01-15  
EARLIER APPLICATION NUMBER: 60/093,491  
EARLIER FILING DATE: 1998-07-20  
EARLIER APPLICATION NUMBER: 60/110,941  
EARLIER FILING DATE: 1998-12-04  
NUMBER OF SEQ ID NOS: 105  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 14  
LENGTH: 753  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-232-197-14

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Best Local Similarity 100.0%; Pred. No. 0.025;  
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QY 1535 CCTACAAAAA 1560  
DB 726 CCTACAAAAA 751

RESULT 11

US-09-232-201-14  
Sequence 14, Application US/09232201A  
Patent No. 6348321  
GENERAL INFORMATION:  
APPLICANT: Stahl, Andreas  
APPLICANT: Hirsch, David J.  
APPLICANT: Lodish, Harvey F.  
APPLICANT: Gimeno, Ruth E.  
APPLICANT: Tartaglia, Louis A.  
TITLE OF INVENTION: FATTY ACID TRANSPORT PROTEINS  
FILE REFERENCE: WHI97-21P3MC  
CURRENT APPLICATION NUMBER: US/09/232,201A  
CURRENT FILING DATE: 1999-01-14  
EARLIER APPLICATION NUMBER: 60/071,374  
EARLIER FILING DATE: 1998-01-15  
EARLIER APPLICATION NUMBER: 60/093,491  
EARLIER FILING DATE: 1998-07-20  
EARLIER APPLICATION NUMBER: 60/110,941  
EARLIER FILING DATE: 1998-12-04  
NUMBER OF SEQ ID NOS: 105  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 14  
LENGTH: 753  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-232-201-14

Query Match 1.7%; Score 26; DB 4; Length 753;  
Best Local Similarity 100.0%; Pred. No. 0.025;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1535 CCTACAAAAA 1560  
DB 726 CCTACAAAAA 751

RESULT 12  
US-09-232-195-14  
Sequence 14, Application US/09232195A  
Patent No. 6657049  
GENERAL INFORMATION:  
APPLICANT: Stahl, Andreas  
APPLICANT: Hirsch, David J.  
APPLICANT: Lodish, Harvey F.  
APPLICANT: Gimeno, Ruth E.  
APPLICANT: Tartaglia, Louis A.  
TITLE OF INVENTION: FATTY ACID TRANSPORT PROTEINS  
FILE REFERENCE: WHI97-21P3MD  
CURRENT APPLICATION NUMBER: US/09/232,195A  
CURRENT FILING DATE: 1999-01-04  
EARLIER APPLICATION NUMBER: 60/071,374  
EARLIER FILING DATE: 1998-01-15  
EARLIER APPLICATION NUMBER: 60/093,491  
EARLIER FILING DATE: 1998-07-20  
EARLIER APPLICATION NUMBER: 60/110,941  
EARLIER FILING DATE: 1998-12-04  
NUMBER OF SEQ ID NOS: 105  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 14  
LENGTH: 753  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-232-195-14

Query Match 1.7%; Score 26; DB 4; Length 753;  
Best Local Similarity 100.0%; Pred. No. 0.025;  
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1535 CCTACAAAAA 1560  
DB 726 CCTACAAAAA 751

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RESULT 13
US-09-261-5998-5/c
; Sequence 5, Application US/092615998
; Patent No. 6395877
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; TITLE OF INVENTION: 14273 Receptor, A No. 6395877el G-Protein Coupled Receptor
; FILE REFERENCE: 5800-4B, 035800/177086
; CURRENT APPLICATION NUMBER: US/09/261,599B
; CURRENT FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 09/107,761
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: 09/223,538
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1560
; TYPE: DNA
; ORGANISM: Murine ortholog
US-09-261-5998-5

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Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 14
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; Sequence 5, Application US/09456455A
; Patent No. 6448005
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; APPLICANT: Tsai, Fong-Ying
; TITLE OF INVENTION: 14273 Receptor, A No. 6448005el G-Protein Coupled Receptor
; FILE REFERENCE: NMI-204CP3
; CURRENT APPLICATION NUMBER: US/09/456,455A
; CURRENT FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: 09/107,761
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: 09/223,538
; PRIOR FILING DATE: 1998-12-30
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US-09-456-455A-5

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Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 15
US-08-781-891-208
; Sequence 208, Application US/08781891
; Patent No. 6090620
; GENERAL INFORMATION:
; APPLICANT: Fu, Ying-Hui
; APPLICANT: Yu, Chang-Eu
; APPLICANT: Oshima, Junko
; APPLICANT: Mulligan, John T.
; APPLICANT: Schellenberg, Gerald D.
```

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; TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
; TITLE OF INVENTION: WERNER'S SYNDROME
; NUMBER OF SEQUENCES: 209
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; APPLICATION DATA:
; APPLICATION NUMBER: US/08/781,891
; FILING DATE: 27-DEC-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6090620tenburg Ph.D., Carol
; REGISTRATION NUMBER: 39,317
; REFERENCE/DOCKET NUMBER: 240052.419
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 208:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1642 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-781-891-208

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Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

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Gapop 60.0 , Gapext 60.0

Searched: 27513289 seqs, 14931090276 residues

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Minimum DB seq length: 0  
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Post-processing: Listing first 45 summaries

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- 26: em\_gss\_png:\*
- 27: em\_gss\_vtl:\*
- 28: gb\_gss1:\*
- 29: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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#### ALIGNMENTS

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ACCESSION  
AV021454  
VERSION  
AV021454.2 GI:16356377  
KEYWORDS  
EST  
SOURCE  
Mus musculus (house mouse)

REFERENCE  
AUTHORS  
Arakawa,T., Carninci,P., Fukuda,S., Furuno,M., Hanagaki,T.,  
Hara,A., Hiramoto,K., Hori,F., Ishii,Y., Ito,M., Kawai,J.,  
Komoto,H., Kouda,M., Koya,S., Matsuyama,T., Miyazaki,A., Nomura,K.,  
Ohno,M., Okazaki,Y., Okido,T., Saito,R., Sakai,C., Sakai,K.,  
Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T.,  
Sogabe,Y., Suzuki,H., Tagami,M., Tagawa,A., Takahashi,F.,  
Takeda,Y., Tanaka,T., Toyota,T., Muramatsu,M. and Hayashizaki,Y.  
RIKEN Mouse ESTs (Arakawa,T., et al. 2001)

TITLE  
JOURNAL  
COMMENT  
On May 11, 1999 this sequence version replaced gi:4798446.  
Contact: Chie Owa  
Genome Science Laboratory  
3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan

Tel: 81-298-36-9145  
 Fax: 81-298-36-9098  
 Email: genome-res@rken.go.jp  
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,  
 Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.  
 Normalization and subtraction of cap-trapper-selected cDNAs to  
 prepare full-length cDNA libraries for rapid discovery of new  
 genes. Genome Res. 10 (10), 1617-1630 (2000)  
 wagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,  
 Watanuki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T.,  
 Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A.  
 and Hayashizaki, Y.  
 RIKEN integrated sequence analysis (RISA) system--384-format  
 sequencing pipeline with 384 multicapillary sequencer. Genome Res.  
 10 (11), 1757-1771 (2000)  
 Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P.,  
 Sugahara, Y., and Hayashizaki, Y.  
 Computer-based methods for the mouse full-length cDNA  
 encyclopedia: real-time sequence clustering for construction of a  
 nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)  
 Kondo, S., Shinagawa, A., Saito, T., Kiyosawa, H., Yamana, I.,  
 Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K., and  
 Hayashizaki, Y.  
 Computational Analysis of Full-length Mouse cDNAs Compared with  
 Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)  
 Please visit our web site (<http://genome.gsc.riken.go.jp/>) for  
 further details.  
 cDNA library was prepared and sequenced in Mouse Genome  
 Encyclopedia Project of Genome Exploration Research Group in Riken  
 Genomic Sciences Center and Genome Science Laboratory in RIKEN.  
 Division of Experimental Animal Research in Riken contributed to  
 prepare mouse tissues.

# FEATURES

## source

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 /clone="1190023803"  
 /sex="mixed"  
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## ORIGIN

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 902 ATGCGGAAAGAGGTTACGCTGAGCTTGGCATCTTGAAGCCACACAGATCGAGTGC 961  
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 149 ATGCGGAAAGAGGTTACGCTGAGCTTGGCATCTTGAAGCCACACAGATCGAGTGC 208  
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 962 CCAAGAAGATCAAGCATCTTTCGCAAGCTCTTCCTGCTCATAGTGTTCCTTCATCAT 1021  
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 1022 GTGAGTCCATCATCATCATCATCTCTCATCTTGTATCCAAATTCGCGGAGAGCT 1081  
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 269 GTGAGTCCATCATCATCATCATCTCTCATCTTGTATCCAAATTCGCGGAGAGCT 328  
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 1082 GGTTCATTTGGCATCCTTTTCTTGGGTGTGGCTTCAAGTTGGCAAATCTGCTCCT 1141  
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 329 GGTTCATTTGGCATCCTTTTCTTGGGTGTGGCTTCAAGTTGGCAAATCTGCTCCT 388  
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 1142 AAAGCCCATCTGTAACAACATGTCGTTCCAGAGAAAGATGAGGAAGATTTTCTG 1201  
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 389 AAAGCCCATCTGTAACAACATGTCGTTCCAGAGAAAGATGAGGAAGATTTTCTG 448  
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 1202 CTTCCTTTTCCAGAGAAAGAGCCATTTTACAGATACGTCGTGAGGCGAAATGACTT 1261

Db 449 CTTCCTTTTCCAGAGAAAGAGCCATTTTACAGATACGTCGTGAGGCGAAATGACTT 508  
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 1200010P16, mRNA sequence.  
 AV025152  
 VERSION  
 AV025152.2 GI:15431435  
 ACCESSION  
 AV025152  
 KEYWORDS  
 SOURCE  
 ORGANISM

REFERENCE  
 AUTHORS  
 Arakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T.,  
 Hara, A., Hiramoto, K., Hori, F., Ishii, Y., Ito, M., Kawai, J.,  
 Kono, H., Kouda, M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, K.,  
 Ohno, M., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K.,  
 Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,  
 Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F.,  
 Takeda, Y., Tanaka, T., Toya, T., Muramatsu, M., and Hayashizaki, Y.  
 RIKEN Mouse ESTs (Arakawa, T., et al. 2001)  
 Unpublished (2001)  
 On May 11, 1999 this sequence version replaced gi:4802144.  
 Contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic  
 Sciences Center (GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9216  
 Email: genome-res@rken.go.jp,  
 URL: <http://genome.gsc.riken.go.jp/>

TITLE  
 JOURNAL  
 COMMENT  
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,  
 Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.  
 Normalization and subtraction of cap-trapper-selected cDNAs to  
 prepare full-length cDNA libraries for rapid discovery of new  
 genes. Genome Res. 10 (10), 1617-1630 (2000)  
 wagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,  
 Watanuki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T.,  
 Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A.  
 and Hayashizaki, Y.  
 RIKEN integrated sequence analysis (RISA) system--384-format  
 sequencing pipeline with 384 multicapillary sequencer. Genome Res.  
 10 (11), 1757-1771 (2000)  
 Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P.,  
 Sugahara, Y., and Hayashizaki, Y.  
 Computer-based methods for the mouse full-length cDNA  
 encyclopedia: real-time sequence clustering for construction of a  
 nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)  
 Kondo, S., Shinagawa, A., Saito, T., Kiyosawa, H., Yamana, I.,  
 Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K.,  
 Arakawa, T., Ishii, Y., and Hayashizaki, Y.  
 Mapping of 19032 mouse cDNAs on mouse chromosomes. J. Struct.

Func. Genomics 2 pre, 172-L86 (2001)

Please visit our web site (<http://genome.gsc.riken.go.jp/>) for further details.

cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Science Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

FEATURES  
source

Location/Qualifiers  
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ORIGIN

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Best Local Similarity 99.8%; Pred. No. 0;  
Matches 607; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 121 TCTGAGAGCAGCAGATCCGAGTGTCCCAACAAGACTACCGACTCTCCGACGCTTTC 180
QY 996 CTGCTCAGGTTTCTTCTTCATCATGTGAGTCCCATCATCATCATCATCATCATCATC 1055
DB 181 CTGCTCAGGTTTCTTCTTCATCATGTGAGTCCCATCATCATCATCATCATCATCATC 240
QY 1056 TTGATCCAAATTTCCGCGAGAGCTGTGATCTGGCAGCCCTTTCTTCTGGTGTG 1115
DB 241 TTGATCCAAATTTCCGCGAGAGCTGTGATCTGGCAGCCCTTTCTTCTGGTGTG 300
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DB 301 GCCTTCAGTTTGCAGCACTGACCCCTAAACCCCATCTGTAACAATGTGCTGTGAGG 360
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DB 541 CTGCTTTAAATAATCCGACTTCCAGACAGAGGATATACGAGCCAGCAATTAAGAA 600
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DB 601 TGATCGCTGATTAATAATTTTCTTAAAGAACTTTCTATGGGTTCTTTTGTGA 660
QY 1476 ACTTTT 1483
DB 661 ACTTTT 668

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RESULT 3  
BO939003 927 bp mRNA linear EST 21-Aug-2002  
LOCUS BO939003  
DEFINITION AGENCOURT\_8946852 NCI\_CGAP\_Co24 Mus musculus cDNA clone

IMAGE:6395027 5', mRNA sequence.

BO939003 GI:22354481

VERSION BO939003.1

KEYWORDS EST

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

source

Location/Qualifiers  
1. 927  
/organism="Mus musculus"  
/mol\_type="mRNA"  
/strain="FVB/N"  
/db\_xref="taxon:10090"  
/clone="IMAGE:6395027"  
/lab\_host="DH10B (T1 phage-resistant)"  
/clone\_lib="NCI\_CGAP\_Co24"  
/note="Organ: colon; Vector: pCMV-Sport6; Site: 1; Not1; Site: 2; SalI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.6 kb. Constructed by Life Technologies. Note: this is a NCI\_CGAP Library."

ORIGIN

Query Match 33.7%; Score 525; DB 13; Length 927;

Best Local Similarity 99.5%; Pred. No. 0;  
Matches 725; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 231 CCTCGGACACCTCGACCAAGTCAATGCAACCACTCCCTTCTTCTGGAGTCAAG 290
DB 52 CCTCGGACACCTCGACCAAGTCAATGCAACCACTCCCTTCTTCTGGAGTCAAG 111
QY 291 GCGACACACCGGTTGGTGTGAGGCGTGTGAGAGCAACCGTTCTGGAGTCAATCTTGTG 350
DB 112 GCGACACACCGGTTGGTGTGAGGCGTGTGAGAGCAACCGTTCTGGAGTCAATCTTGTG 171
QY 351 GTCTCACTGTGGGCAACGTGTGCTCTAGTGTGTGTCGCGCGCGTGGCGCGTGGG 410
DB 172 GTCTCACTGTGGGCAACGTGTGCTCTAGTGTGTGTCGCGCGCGTGGCGCGTGGG 231
QY 411 GCGTCAACGAGCTGTGTCTCAACCTTCTGCGCGGATTTGCTTCTTCAACAGGCGCATC 470
DB 411 GCGTCAACGAGCTGTGTCTCAACCTTCTGCGCGGATTTGCTTCTTCAACAGGCGCATC 291
QY 232 GCGACACACCGTGTGTCTCAACCTTCTGCGCGGATTTGCTTCTTCAACAGGCGCATC 291
DB 471 CCTCTAGTGTGTGTGCGCTGAGTCAAGGAGCTGTGTTGGGAGCCGCTGTGCGAC 530
DB 292 CCTCTAGTGTGTGTGCGCTGAGTCAAGGAGCTGTGTTGGGAGCCGCTGTGCGAC 351
QY 531 CTGCTCTTCTAGTGTATGACAAATGAGCGGAGCGTCAAGTCTTCACTGAGCGCGGTC 590
DB 352 CTGCTCTTCTAGTGTATGACAAATGAGCGGAGCGTCAAGTCTTCACTGAGCGCGGTC 411
QY 591 AGCTGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 650
DB 412 AGCTGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 471
QY 651 CGGACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 710
DB 472 CGGACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 531

```

QY		711	CTGTACACTTCTGTTCCGGTGATGCCGAGCGCCTTCGGCGGGAGCACGAATTCCG	
Db		532	CTGTGCATCTTGTTCGGTGATGCCGAGCGCCTTCGGCGGGAGCACGAATTCCG	591
QY		771	ATTTCACATTGATGGCCCAACC CGCATVAGAGAATACTCATGSGATGTGTTTTGAG	830
Db		592	ATTTCACATTGATGGCCCAACC CGCATVAGAGAATACTCATGSGATGTGTTTTGAG	651
QY		831	ACCTTGAACCTTCGTGTCCGGGACCTGGTCATTTGATCAGTACTCCAAATTTTAAG	890
Db		652	ACCTTGAACCTTCGTGTCCGGGACCTGGTCATTTGATCAGTACTCCAAATTTTAAG	711
QY		891	ATCACAAGCATGCGCGAAGAGGCTTAGCTGAGCTTGAGTA CTGAGAGCCACCG	950
Db		712	ATCACAAGCATGCGCGAAGAGGCTTAGCTGAGCTTGAGTA CTGAGAGCCACCG	771
QY		951	ATCCGAGTG 959	
Db		772	ATCCGAGTG 780	
RESULT 4		BUS22456		
LOCUS		BUS22456	870 bp mRNA linear EST 13-SEP-2002	
DEFINITION		AGENCOURT 10153856 NCI CGAP Co24 Mus musculus CDNA clone		
ACCESSION		IMAGE:6528871 5', mRNA sequence.		
VERSION		BUS22456		
KEYWORDS		BUS22456.1 GI:22829982		
SOURCE		EST.		
ORGANISM		Mus musculus (house mouse)		
COMMENT		Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 870) NIH-MGC http://mgc.nci.nih.gov/ National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgapbs@mail.nih.gov Tissue Procurement: The Cepko Laboratory CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: http://image.lnl.gov Plate: LHAM14128 row: b column: 07 High quality sequence stop: 615. Location/Qualifiers 1..870 /organism="Mus musculus" /mol_type="mRNA" /strain="FVB/N" /db_xref="taxon:10090" /clone="IMAGE:6528871" /lab_host="DH10B (T1 phage-resistant)" /clone_1lb="NCI CGAP Co24" /note="Organ: colon, Vector: pCMV-SPORT6; Site_1: Notf; Site_2: Salt; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.6 kb. Constructed by Life Technologies. Note: this is a NCI_CGAP Library."		
FEATURES		source		
ORIGIN				
Query Match		30.8%; Score 481; DB 13; Length 870;		
Best Local Similarity		99.4%; Pred. No. 0;		
Matches 681; Conservative		0; Mismatches 4; Indels 0; Gaps 0		
QY		231	CCCTTCGACACCCCTGAGCAACATGATGAGCAACCACTTCCCTTTCTTCGAGATCAAG	290
Db		48	CCCTTCGACACCCCTGAGCAACATGATGAGCAACCACTTCCCTTTCTTCGAGATCAAG	107
QY		291	GCGACACACCGTTGTGTGTGAGCGTCGTGAGAACACCGTTCTGAGACTATCTTTGTC	350

Db	108	GGGACCAACCGGTTGGGTGTGACCGTGTGGACACACCGTTCTGGGGCTCATCTTTGTC	167
Qy	351	GTCTCACTGCTGGGCAACGTGTGTGCTCTAATGCTGTGTGGCGCGCGCTGGCGCTGGG	410
Db	168	GTCTCACTGCTGGGCAACGTGTGTGCTCTAATGCTGTGTGGCGCGCGCTGGCGCTGGG	227
Qy	411	GGCTCAGCCGACCTGTGTGTCAACCTCTTCTGTGGCGGATTTGGCTTTACACAGGGCATC	470
Db	228	GGACAGCCGACCTGTGTGTCAACCTCTTCTGTGGCGGATTTGGCTTTACACAGGGCATC	287
Qy	471	CCTCTAATGTCTGTGTGTGGCGCTGTGACCTGTGCTGTGGGACCCGTGTGTGTGCAC	530
Db	288	CCTCTAATGTCTGTGTGTGGCGCTGTGACCTGTGCTGTGGGACCCGTGTGTGTGCAC	347
Qy	531	CTGTCTTTTACGTGTGTGTGACCAATGAGCGGACGCTGCATCTTCACACTGGCCGCGTC	590
Db	348	CTGTCTTTTACGTGTGTGTGACCAATGAGCGGACGCTGCATCTTCACACTGGCCGCGTC	407
Qy	591	AGCCTGAGCGGCATGTGTGTGCATCTGTGGCGCTTCGCGCGCGGCTTGTAGCGCGCGCGG	650
Db	408	AGCCTGAGCGGCATGTGTGTGCATCTGTGGCGCTTCGCGCGCGGCTTGTAGCGCGCGG	467
Qy	651	CGGACTAGGCGGCACTGTGTGTGCATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	710
Db	468	CGGACTAGGCGGCACTGTGTGTGCATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	527
Qy	711	CTCTACATCTTGT	770
Db	528	CTCTACATCTTGT	587
Qy	771	ATTGTGCATTTGT	830
Db	588	ATTGTGCATTTGT	647
Qy	831	ACTTTGAATCTTGT	890
Db	648	ACTTTGAATCTTGT	707
Qy	891	ATCACGAAGCATTCGCGGAAGAGGC	915
Db	708	ATCACGAAGCATTCGCGGAAGAGGC	732
RESULT 5	BUS22608	875 bp mRNA linear EST 13-SEP-2002	
LOCUS	BUS22608	AGENCOURT 10154009 NCI_CGAP Co24 Mus musculus cDNA clone	
DEFINITION	IMAGE:6525120 5', mRNA sequence.		
ACCESSION	BUS22608		
VERSION	BUS22608.1	GI:22830134	
KEYWORDS	EST.		
SOURCE	Mus musculus (house mouse)		
ORGANISM	Mus musculus		
REFERENCE	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
AUTHORS	1 (bases 1 to 875)		
TITLE	NIH-MGC http://mgc.nci.nih.gov/		
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)		
COMMENT	Unpublished (1999)		
	Contact: Robert Strausberg, Ph.D.		
	Email: cgapds-remail.nih.gov		
	Tissue Procurement: The Cepk Laboratory		
	cDNA Library Preparation: Life Technologies, Inc.		
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)		
	DNA Sequencing by: Agencourt Bioscience Corporation		
	Clone distribution: MGC clone distribution information can be		
	found through the I.M.A.G.E. Consortium/LNLN at:		
	http://image.lnl.gov		
	Plate: LLAM14128 row: 1 column: 16		
FEATURES	High quality sequence stop: 653.		
SOURCE	Location/Qualifiers		
	1..875		



**ORIGIN**

EST.  
Mus musculus (house mouse)  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus  
1. (bases 1 to 928)  
NIH-MGC <http://mgc.nci.nih.gov/>.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: [cgapsb@emall.nih.gov](mailto:cgapsb@emall.nih.gov)  
Tissue Procurement: Gilbert Smith, Ph.D.  
cDNA Library Preparation: Life Technologies, Inc.  
cDNA Sequencing by: The I.M.A.G.E. Consortium (LNL)  
Clone distribution by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
<http://image.lnl.gov>  
Plate: LLM14034 row: b column: 04  
high quality sequence stop: 605.

Location/Qualifiers  
1. . 928

**ORIGIN**

Best Local Similarity 99.5%; Pred.No. 0;  
Matches 595; Conservative 0; Mismatches 3; Indels 0; Gaps 0.

Qy	231	CCCTGCACACCCTGGACCAAGTCAATGCA	290
Dp	69	CCCTGCACACCCTGGACCAAGTCAATGCA	120
Qy	291	GCGACCAACCGGTGGTGTGAGCGT	350
Dp	129	GCGACCAACCGGTGGTGTGAGCGT	188
Qy	351	GTTCTACTCTGGGCAACGTGTGTCT	410
Dp	189	GTTCTACTCTGGGCAACGTGTGTCT	248
Qy	411	GCGTCAGCAGCTGGTGTCAACCTCTT	470
Dp	249	GCGTCAGCAGCTGGTGTCTCAACCTCTT	308
Qy	471	CCTCTAGTCTGTGTGTGCTGAACTG	530
Dp	309	CCTCTAGTCTGTGTGTGCTGAACTG	368
Qy	531	CTGCTCTTCTAGTGTATGACATGAG	590
Dp	369	CTGCTCTTCTAGTGTATGACATGAG	428

Db	429	AGCTTGAGCGCATGCTGTGCACTCGTGGCCCTCCGCGCGGACTTGAGCGCGCCCGGGCGG	488
Oy	651	CGGACTCAGGCGGCACTGCTGACTTTCATATATGGGTTA	710
	489	CGGACTCAGGCGGCACTGCTGACTTTCATATATGGGTTA	548

QY		711	CTCAACATCTGTTCCGGGTGATCCCGAGGCCTTCCCGCGGGAGACAGAGAATTCCG	770
Dd		549	CTCIGCATCTTGTTCCGCTGTGTCCCGAGGCCCTTCCCGCGGGAGACCAGAAATTCGG	608
QY		771	ATTGCAcATTGgATTGGcCCAcCGcATAgAGAAATCTcATggGAATgtTTTTTg	828
Dd		609	ATTGCAcATTGgATTGGcCCAcCGcATAgAGAAATCTcATggGAATgtTTTTTg	666
RESULT 7		BX527210		
LOCUS		BX527210		
DEFINITION		BX527210 Soares mammary gland NbMwG Mus musculus cDNA clone	537 bp mRNA linear EST 27-JUN-2000	
ACCESSION		BX527210		
VERSION		BX527210.1	GI:32304990	
KEYWORDS		EST.		
SOURCE		Mus musculus (house mouse)		
ORGANISM		Mus musculus		
REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
AUTHORS		Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus.		
TITLE		1 (bases 1 to 537)		
JOURNAL		Hell,O., EBertt,L., Neubert,P., Peters,M., Radelhof,U., Schneider,D.		
COMMENT		and Korn,B. Mouse UnigeneSet - RZPD2 Unpublished (2003) Contact : Ina Rolfs		

**FEATURES**  
 RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH  
 Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany  
 RZPD: IMAGP998K072670  
 RZPDLIB: I.M.A.G.E. cDNA Clone Collection;  
 Mouse Unigeneset - RZPD2 (RZPDLIB No.981)  
[http://www.rzpd.de/CloneCards/cgi-  
 bin/showlib.pl.cgi?response=11bno=981](http://www.rzpd.de/CloneCards/cgi-bin/showlib.pl.cgi?response=11bno=981) Contact: Ina Rols  
 RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH  
 Heubnerweg 6, D-14059 Berlin, Germany  
 Tel: +49 30 32639 101  
 Fax: +49 30 32639 111  
[www.rzpd.de](http://www.rzpd.de)  
 This clone is available royalty-free from RZPD;  
 contact RZPD ([clone@rzpd.de](mailto:clone@rzpd.de)) for further information. Seq primer:  
 17', Primer sequence: TAAATACGACTCATATAGGG.  
 Location/Qualifiers

[illegible]

ORIGIN

Query Match	27.8%	Score 434;	DB 13;	Length 537;
Best Local Similarity	99.6%	Pred. No. 0;		
Matches 534; Conservative	0;	Mismatches 2;	Indels 0;	Gaps 0

561 AGCGTACGATCCTCACTGGCCGGTACGCTGGAGCGCATGTGTGATCGTGGCC 620

Db	2	AGGGTACAGATTCCTCAACATCGCCGCGGCTAGCTGGAAGCGCATGTGTCATGTGTGCGC	61
Qy	621	CTCCGGCGCGGCGCTTTGAGACGGCCCGGGGCGCGGACCTAGCGCGGACATGCTGGCTTTGATA	680
Db	62	CTCCGGGCGGCGCTTTGAGACGGCCCGGGGCGCGGACCTAGCGCGGACATGCTGGCTTTGATA	121
Qy	681	TGGGGTTACTTCGGCGGCTCGCGCGGCTGCCCTCTACATCTTGTTCGCGGTGTCGCCGAG	740
Db	122	TGGGGTTACTTCGGCGGCTCGCGCGGCTGCCCTCTGACATCTTGTTCGCGGTGTCGCCGAG	181
Qy	741	CGCCTTCCGGGCGGGGACCGAGAAATTCGGAATTTGCAATTGGATTGGCCCAACCGGATA	800
Db	182	CGCCTTCCGGGCGGGGACCGAGAAATTCGGAATTTGCAATTGGATTGGCCCAACCGGATA	241
Qy	801	GGAGAAATCTCATGGAGATGTGTTTTTTTGGAACTTGGAACTTCGCGTGC CGGAGACTGGTC	860
Db	242	GGAGAAATCTCATGGAGATGTGTTTTTTTGGAACTTGGAACTTCGCGTGC CGGAGACTGGTC	301
Qy	861	ATTGTGATCAGTTACTCCAAAATTTTACAGATCCGAAAGCATGCGGAGAGGCTTAACG	920
Db	302	ATTGTGATCAGTTACTCCAAAATTTTACAGATCCGAAAGCATGCGGAGAGGCTTAACG	361
Qy	921	CTGAGCTTGGCATACTCTGAGAGCACAGATCCGAGTGCAGCCCAAGAAAGACTACGGAATC	980
Db	362	CTGAGCTTGGCATACTCTGAGAGCACAGATCCGAGTGCAGCCCAAGAAAGACTACGGAATC	421
Qy	981	TTCCGCAAGCTCTTTCCTGCTCATAGGTTTCCTTTCATCATGTGAGTCCCATCATATC	1040
Db	422	TTCCGCAAGCTCTTTCCTGCTCATAGGTTTCCTTTCATCATGTGAGTCCCATCATATC	481
Qy	1041	ACCATCTCTCATACTTGCATCCAAAATTCGCGAGGAGACCTGGTCATCTGGCCATTC	1096
Db	482	ACCATCTCTCATACTTGCATCCAAAATTCGCGAGGAGACCTGGTCATCTGGCCATTC	537

[illegible]

Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute The Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gs.c.riken.go.jp,  
URL: http://genome.gsc.riken.go.jp/  
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.,  
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. *Genome Res.* 10 (10), 1617-1630 (2000)  
wagci, K., Fujiyake, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Tanahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T.,

**FEATURES**

**SOURCE**

**ORIGIN**

Qy	291	GGGACCAACGGGTGGTGTGAAGGTCGTGGAGACACCCGTTCTGGAGACTCATCTTTGTC	350
Db	143	GGGACCAACCGGTGGTGTGAAGGTCGTGGAGACACCGTTCTGGAGACTCATCTTTGTC	202
Qy	351	GTCCTACTGTGGGCAACGTGTGTCTCTTAAGTCGTGGGCGCGCTGGCGCGGTGGG	410
Db	203	GTCCTACTGTGGGCAACGTGTGTCTCTTAAGTCGTGGGCGCGCTGGCGCGGTGGG	262
Qy	411	GGGTCACCAAGCCGTGTGTCTCAACTCTTCTGGCGGAAATTGGTCTTTACACAGGCCATC	470
Db	263	GGGTCACCAAGCCGTGTGTCTCAACTCTTCTGGCGGAAATTGGTCTTTACACAGGCCATC	322
Qy	471	CCTCTAAGTCGTCTGTGCGCTGGAAGTGAAGGCTTGCTTGGGGCCCGTCGTCTGGCAC	530
Db	323	CCTCTAAGTCGTCTGTGCGCTGGAAGTGAAGGCTTGCTTGGGGCCCGTCGTCTGGCAC	382
Qy	531	CTGTCTTTTACGTAAGTGAACAATAGCGGACCGTCACGAATCTTACACTGGCGCGGTC	590
Db	383	CTGTCTTTTACGTAAGTGAACAATAGCGGACCGTCACGAATCTTACACTGGCGCGGTC	442

RESULT 9				
CG557110				
LOCUS	CG557110	517 bp	DNA	linear
DEFINITION	OS1173216 Mus musculus 125SV/Ev Mus musculus genomic clone			
ACCESSION	OS1173216, genomic survey sequence.			
VERSION	CG557110			
KEYWORDS	CG557110.1	GI:37343697		
SOURCE	GSS.			
ORGANISM	Mus musculus	(house mouse)		

**TITLE** Mx1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention  
**JOURNAL** Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)  
**COMMENT** Contact: Zamfrowicz BP

FEATURES	Location/Qualifiers
SOURCE	1. .517

**ORIGIN**

830 GACTTGAACCTTCCTGTGCCGGGACTGTCAATTGTGATCAGTTACTCCAAAAATTTTCA 889

890 GATCAGGAAGCATCGCGAAGAGGCTTACGCTGAGCTTGGCATCTCTGAGAGCCACCA 949

Db 136 GATCACAAGCATCGCGAAGGCTTACGCTGAGCTTGGCATCTCTGAGAGCCACCA 195

950 GATCCGAGTGTCCCAACAGACTACCGACTCTTTCGACGCTCTTTCCTGTCTCATGGTTTC 1009

```

Db      196 GATCCGAGTGTCCCAACAGACTACCGACTCTTCCGACGCTCTTCTCGTCATGTTTC 255
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Db      256 CTCTTCATATGATGAGTGATCCCATCATCATCATCATCTCTCTTCTGATTCAAAATT 315
Qy      1070 CCGGACGAGACTGATGATCTGAGCATCTCTTCTTCTGAGTGATGAGCTTACGTTTC 1129
Db      316 CCGGACGAGACTGATGATCTGAGCATCTCTTCTTCTGAGTGATGAGCTTACGTTTC 375
Qy      1130 CAATCTGCTCCCTAAACCCCACTGTAACAATGTCGCTGTTCCAGAACGATGAGGAA 1189
Db      376 CAATCTGCTCCCTAAACCCCACTGTAACAATGTCGCTGTTCCAGAACGATGAGGAA 435
Qy      1190 GATTTTGTCTGCTCTTCTTCTTCCAGAGAGGAGGAGCATTTTACAGA 1237
Db      436 GATTTTGTCTGCTCTTCTTCTTCCAGAGAGGAGGAGCATTTTACAGA 483

RESULT 10
LOCUS   BB609814 637 bp mRNA linear EST 26-OCT-2001
DEFINITION BB609814 RIKEN full-length enriched, 18 days embryo Mus musculus
            BB609814
            BB609814 CNA clone 1190023B03 5', mRNA sequence.
VERSION   BB609814.1 GI:16451529
KEYWORDS   EST.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
            1 (bases 1 to 637)
REFERENCE   1
AUTHORS   Arakawa,T., Carninci,P., Fukuda,S., Furuno,M., Hanagaki,T.,
            Hara,A., Hiramoto,K., Hori,F., Ishii,Y., Ito,M., Kawai,J.,
            Kono,H., Kouda,M., Koya,S., Matsuyama,T., Miyazaki,A., Nomura,K.,
            Ono,M., Okazaki,Y., Okido,T., Saito,R., Sakai,C., Sakai,K.,
            Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T.,
            Sogabe,Y., Suzuki,H., Tagami,M., Tagawa,A., Takahashi,F.,
            Takeda,Y., Tanaka,T., Toya,T., Muramatsu,M. and Hayashizaki,Y.
            RIKEN Mouse ESTs (Arakawa,T., et al. 2001)
            Unpublished (2001)
            Contact: Yoshihide Hayashizaki
            Laboratory for Genome Exploration Research Group, RIKEN Genomic
            Sciences Center(GSC), Yokohama Institute
            The Institute of Physical and Chemical Research (RIKEN)
            1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
            Tel.: 81-45-503-9222
            Fax: 81-45-503-9216
            Email: genome-res@gs.c.riken.go.jp,
            URL: http://genome.gsc.riken.go.jp/
            Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K.,
            Itoh,M., Kono,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
            Normalization and subtraction of cap-trapper-selected cDNAs to
            prepare full-length cDNA libraries for rapid discovery of new
            genes. Genome Res. 10 (10), 1617-1630 (2000)
            wagi,K., Fujiwara,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,B.,
            Matsubiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T.,
            Matsura,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A.
            and Hayashizaki,Y.
            RIKEN integrated sequence analysis (RISA) system-384-format
            sequencing pipeline with 384 multicapillary sequencer. Genome Res.
            10 (11), 1757-1771 (2000)
            Kono,H., Fukunishi,Y., Shibata,K., Itoh,M., Carninci,P.,
            Sugahara,Y. and Hayashizaki,Y.
            Computer-based methods for the mouse full-length cDNA
            encyclopedia: real-time sequence clustering for construction of a
            nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
            Kondo,S., Shinagawa,A., Saito,T., Kiyosawa,H., Yamanaka,I.,
            Aizawa,K., Fukuda,S., Hara,A., Itoh,M., Kawai,J., Shibata,K. and
            Hayashizaki,Y.
            Computational Analysis of Full-length Mouse cDNAs Compared with
            Human Genome Sequences. Mamm. Genome. 12, 673-677 (2001)
            Please visit our web site (http://genome.gsc.riken.go.jp) for

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FEATURES
    source
        further details.
            e mouse tissues.
            Location/Qualifiers
                1..637
                /organism="Mus musculus"
                /mol_type="mRNA"
                /db_xref="taxon:10090"
                /clone="1190023B03"
                /dev_stage="18 days embryo"
                /lab_host="SOLR"
                /clone_1lb="RIKEN full-length enriched, 18 days embryo"
                /note="Site 1: XhoI; Site 2: SctI; cDNA library was
                prepared and sequenced in Mouse Genome Encyclopedia
                project of Genome Exploration Research Group in Riken
                Genomic Sciences Center and Genome Science Laboratory in
                RIKEN. Division of Experimental Animal Research in Riken
                contributed to prepare mouse tissues. 1st strand cDNA was
                primed with a primer [5'
                GAGAGAGAGAGCGCGCAACTGAGTTTCTTTTCTTTTCTT 3'], cDNA was
                prepared by using trehalose thermo-activated reverse
                transcriptase and subsequently enriched for full-length by
                cap-trapper. Second strand cDNA was prepared with the
                primer adapter of sequence [5'
                GAGAGAGAGAGATCAAGAGCTCATTAATTAATTAACCCCCCCC 3'].
                cDNA was cleaved with XhoI and SctI."

ORIGIN
Query Match 24.5%; Score 382; DB 10; Length 637;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 482; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      231 CCTTCGACACCTCGGACCAAGTCAATGCAACCCACTTCCCTTCTTCTGATGTCAG 290
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Db      128 GGGACACACCGTTGTTGTTGAGCGTGTGAACCAACCGTTCTGGAGCTCATTTTGTG 187
Qy      351 GTCTCACTGCTGGGCAACGTTGTCCTAGTCTGTTGAGCGGCGGCTGGCGCGCTGGG 410
Db      188 GTCTCACTGCTGGGCAACGTTGTCCTAGTCTGTTGAGCGGCGGCTGGCGCGCTGGG 247
Qy      411 GCGTCAACGACCGCTGTTGCTCAACCTTCTTGGCGGATTTGCTTTCACAGCGCATC 470
Db      248 GCGACACGACCGCTGTTGCTCAACCTTCTTGGCGGATTTGCTTTCACAGCGCATC 307
Qy      471 CTTCTAGTCTGCTGTTGCTGCTGAGCTGAGCGCTGCTGTTGGGCGCGCTGCTGTCAC 530
Db      308 CTTCTAGTCTGCTGCTGCTGCTGAGCTGAGCGCTGCTGTTGGGCGCGCTGCTGTCAC 367
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Db      368 CTGCTCTTCAAGTGAATGAATGAGCGGAGCGTGCAGATCTTCACACTGCGCGCGATC 427
Qy      591 AGCTGAGAGCGATGTTGTCATGTCGCTCGCGCGCGGCTTGAAGCGGCGCGGCGG 650
Db      428 AGCTGAGAGCGATGTTGTCATGTCGCTCGCGCGCGGCTTGAAGCGGCGCGGCGG 487
Qy      651 CGGACTCAGCGCGGACTGCTGCGCTTCTATATGGGTTTACTGCGCGCTGCGCGCTGCCC 710
Db      488 CGGACTCAGCGCGGACTGCTGCGCTTCTATATGGGTTTACTGCGCGCTGCGCGCTGCCC 547
Qy      711 CTCT 714
Db      548 CTCT 551

RESULT 11
LOCUS   A1552415 437 bp mRNA linear EST 23-MAR-1999
DEFINITION VP04604.x1 Soares mammary_gland_NbMKG Mus musculus cDNA clone
            IMAGB:1067646 3', mRNA sequence.

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ACCESSION	A1552415
VERSION	A1552415.1
KEYWORDS	GI:4484778
SOURCE	EST.
ORGANISM	Mus musculus (house mouse)
REFERENCE	Mus musculus
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
TITLE	NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap. National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL	Unpublished (1997) Contact: Robert Strausberg, Ph.D. Email: sgabbs-remail.nih.gov This clone is available royalty-free through LNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MG1:590006
FEATURES	This clone was previously sequenced on the 5' end only, this new data is from the 3' end High quality sequence stop: 399. location/Qualifiers 1..437 /organism="Mus musculus" /mol_type="mRNA" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="IMAGE:1067646" /bex="male" /tissue_type="mammary gland" /dev_stage="4 weeks" /lab_host="DH10B" /clone_lib="Scorae mammary gland NbMWG" /note="Organ: mammary gland; Vector: pTZ3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I, Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCATCTGAAGGGAGCGCGCGCAATGTATTTTTTTTTTTTTTTTTTTT T 3'] : double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pTZ3 vector. RNA provided by Dr. Minoru Ko, Wayne State Univ. library constructed and normalized by Bento Soares and M.Fatima Bonaldo."
ORIGIN	
Query Match	17.8%; Score 278; DB 9; Length 437;
Best Local Similarity	99.5%; Prid. No. 0;
Matches 378; Conservative	0; Mismatches 2; Indels 0; Gaps 0;
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Dy	1164 TCAGCTGTTCAAGAACGATGAGGAGAATTGTTGCTGCTCTTTTTCAGAGAAAGGA 1223
Dd	377 TCGCTGTTCAAGAACGATGAGGAGAATTGTTGCTGCTCTTTTTCAGAGAAAGGA 318
Dy	1224 GCCATTTTTCAGATACGTCTGTACAGCGGAAATGACTGTCCTGTTATTTCCAGCTACTA 1283
Dd	317 GCCATTTTTCAGACACGCTCTGTACAGCGGAAATGACTGTCCTGTTATTTCCAGCTACTA 258
Dy	1284 GCCTCTGGTGCAGGTGAACACGSGTGNGATGTPAAGAGAGTTAACTTCAAGGAAAGCC 1343
Dd	257 GCCTCTGGTGCAGGTGAACACGSGTGNGATGTPAAGAGAGTTAACTTCAAGGAAAGCC 198
Dy	1344 CACGAGTGCAGCGCTGCTTTAAAATAACCCGACTTCCAACAGAGCATCTACGAGCCAG 1403
Dd	197 CACGAGTGCAGCGCTGCTTTAAAATAACCCGACTTCCAACAGAGCATCTACGAGCCAG 138
Dy	1404 CAATTAAGGAATGATCGCTCAGATTAATAATTTTTCTTAAAGAACTTTCTATGGG 1463
Dd	137 CAATTAAGGAATGATCGCTCAGATTAATAATTTTTCTTAAAGAACTTTCTATGGG 78

QY	1464	TTCCCTTTGTGACATTTT	1483
DB	77	TTCCCTTTGTGACATTTT	58
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DEFINITION	OSJ10062 Mus musculus 129Sv/Ev Mus musculus genomic clone		
ACCESSION	OSJ10062	genomic survey sequence.	
VERSION	CG617050		
KEYWORDS	CG617050.1	GI:37440899	
SOURCE	GSS.		
ORGANISM	Mus musculus (house mouse)		
REFERENCE	Mus musculus		
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 492)		
	Zambrowicz, B. P., Abuhin, A., Ramirez-Solis, R., Richter, L. J., Figgott, J., Beltranderio, H., Buxton, E. C., Edwards, J., Finch, R. A., Friedle, C. J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B. W., Jr., Kipp, P., Kohlhauf, B., Ma, Z. Q., Matkeich, D., Payne, R., Potter, D. G., Qian, N., Shaw, J., Schrick, J., Shi, Z. Z., Sparks, M. J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N., Zhu, Q., Person, C. and Sands, A. T.		
TITLE	Mnl1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention		
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)		
COMMENT	Contact: Zambrowicz BP OmniBank Lexicon Genetics Incorporated 4000 Research Forest Drive, The Woodlands, TX 77381, USA Email: materials@lexgen.com Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature, 1998 Apr 9;392(6676):608-11) Class: Gene Trap. Location/Qualifiers 1..492 /organism="Mus musculus" /mol_type="genomic DNA" /strain="129Sv/Ev" /db_xref="taxon:10090" /clone="OSJ10062" /cell_type="embryonic stem cell" /clone_lib="Mus musculus 129Sv/Ev"		
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SOURCE			
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Best Local Similarity	100.0%	Prod. No. 0;	
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DB	173	GACTACGACGCTTTCGCGACGCGCTTCCTGCTCATGTTTCTTTCATCATGTGAGT	232
QY	1029	CCCATCATCATCACATCTCCTCATCTGATTCATAAACTTCGCGAGAGACTGGTATC	1088
DB	233	CCCATCATCATCACATCTCCTCATCTGATTCATAAACTTCGCGAGAGACTGGTATC	292
QY	1089	TGGCCATCCCTTTTCTTCTGGGAGTGGCCCTTCACGTTTGGCACTCGCCCTAAACCC	1148
DB	293	TGGCCATCCCTTTTCTTCTGGGAGTGGCCCTTCACGTTTGGCACTCGCCCTAAACCC	352
QY	1149	ATACTGTACAAAGTGGCTGTTTACGAAAGCAATGAGAGAGATTTTGTGCTTCTT	1208
DB	353	ATACTGTACAAAGTGGCTGTTTACGAAAGCAATGAGAGAGATTTTGTGCTTCTT	412
QY	1209	TTTCCAGAGAGAGAGCATTTTACAGA 1237	
DB	413	TTTCCAGAGAGAGAGCATTTTACAGA 441	

BF580577 647 bp mRNA linear EST 12-DEC-2000  
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 DEFINITION mRNA sequence.  
 ACCESSION BF580577  
 VERSION BF580577.1 GI:11654289  
 KEYWORDS EST.  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 647)  
 REFERENCE NIH-MGC http://mgc.nci.nih.gov/  
 AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)  
 TITLE Unpublished (1999)  
 JOURNAL Contact: Robert Strauberg, Ph.D.  
 COMMENT Email: cgabs-remail.nih.gov  
 Tissue Procurement: Jeffrey E. Green, M.D.  
 CDNA Library Preparation: Life Technologies, Inc.  
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LMNL)  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
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 http://image.lnl.gov  
 Plate: LM9795 row: 1 column: 21  
 High quality sequence stop: 626.  
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 Average insert size 1.6 kb. Constructed by Life  
 Technologies. Note: this is a NCI\_CGAP Library."  
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 Db 1 GGGTTAGCGTGAAGTTGGCATCTCTGAGAGCCAGATCCGAGTCCCAAGAAGCT 60  
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 QY 1033 TCATCATCACCACCTCTCTCATCTTTCATCCAAAATTCGCGAGACCTGGTCACTGGC 1092  
 Db 121 TCATCATCACCACCTCTCTCATCTTTCATCCAAAATTCGCGAGACCTGGTCACTGGC 180  
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 Db 181 CATCCCTTTCTTCTGGGTGGTGGCTTCAGCTT 214  
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 clone IMAGE:465175 5', mRNA sequence.  
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 KEYWORDS EST.  
 SOURCE Mus musculus (house mouse)  
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REFERENCE Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 365)  
 AUTHORS Marra,M., Hillier,L., Allen,M., Bowlee,M., Dietrich,N., Dubuque,T.,  
 Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,  
 Schellendberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,  
 Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and  
 Waterston,R.  
 TITLE The WashU-HMI Mouse EST Project  
 JOURNAL Unpublished (1996)  
 COMMENT Contact: Maria M/Mouse EST Project  
 WashU-HMI Mouse EST Project  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: mouseest@watson.wustl.edu  
 This clone is available royalty-free through LMNL; contact the  
 IMAGE Consortium (info@image.lnl.gov) for further information.  
 MGI:278991  
 Seq primer: -28M13 rev2 from Amersham  
 High quality sequence stop: 356.  
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 /lab\_host="DH10B"  
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 TGTTCACATCTAAGTGGAGGCGCGGGAATTTTCTTTTCTTTTCTTTT  
 T 3'), on equal amounts of mRNA from 2 13.5dpc and 2  
 14.5dpc embryos [total RNA provided by Minoru Ko, Wayne  
 State Univ., from 2 ]; double-stranded cDNA was ligated to  
 Eco RI adaptors (Pharmacia), digested with Not I and  
 cloned into the Not I and Eco RI sites of the modified  
 p773D vector. Library went through one round of  
 normalization, and was constructed by Bento Soares and  
 M.Patima Bonaldo. "  
 ORIGIN  
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 QY 904 CGGGAAGAGGCTTACGCTGAGTCATCTCTGAGAGCCAGATCCGAGTCC 963  
 Db 1 CGGGAAGAGGCTTACGCTGAGTCATCTCTGAGAGCCAGATCCGAGTCC 60  
 QY 964 AACAAAGTACCGACTCTTCGCGACGCTCTTCCTGCTCATGTTCCTTTCATCATGT 1023  
 Db 61 AACAAAGTACCGACTCTTCGCGACGCTCTTCCTGCTCATGTTCCTTTCATCATGT 120  
 QY 1024 GGAATCCCATCATCATCATCATCTCTCATCTTTCATCCAAAATTCGCGAGACCTGG 1083  
 Db 121 GGAATCCCATCATCATCATCATCTCTCATCTTTCATCCAAAATTCGCGA-GACTGG 179  
 QY 1084 TCATCTGGCCATCCCTTTCTTCTGGGTGGTGGCTTCAGTTTCACATCTGCTTAA 1143  
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Db 360 CTGTTA 365

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DEFINITION BY345055 RIKEN full-length enriched, whole joints Mus musculus CDNA  
clone L730011C21 5', mRNA sequence.  
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VERSION BY345055.1 GI:26574543  
KEYWORDS EST.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 344)  
Okazaki,Y., Furuno,M., Kasukawa,T., Adachi,J., Bono,H., Kondo,S.,  
Nikaido,I., Osato,N., Saito,R., Suzuki,H., Yamataka,I.,  
Kiyosawa,H., Yagi,K., Tomaru,Y., Hasegawa,Y., Nogami,A.,  
Schonbach,C., Gojobori,T., Baldarelli,R., Hill,D.P., Bult,C.,  
Hume,D.A., Quackenbush,J., Schriml,L.M., Kanapin,A., Matsuda,H.,  
Batalov,S., Beisel,K.W., Blake,J.A., Bradt,D., Brusic,V.,  
Chochua,C., Corbani,L.E., Cousins,S., Dalla,E., Dragani,T.A.,  
Fletcher,C.F., Forrest,A., Frazer,K.S., Gaasterland,T.,  
Garciboldi,M., Gissi,C., Godzik,A., Gough,J., Grigmond,S.,  
Gustichin,S., Hirokawa,N., Jackson,I.J., Jarvis,E.D., Kanai,A.,  
Kawai,H., Kawasawa,Y., Kedzierski,R.M., King,B.L., Kongaya,A.,  
Kurochkin,I.V., Lee,Y., Lenhard,B., Lyons,P.A., Maglott,D.R.,  
Maltais,L., Marchionni,L., McKenzie,L., Miki,H., Nagashima,T.,  
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Petrovsky,N., Pillai,R., Pontius,J.V., Qi,D., Ramachandran,S.,  
Ravasi,T., Reed,J.C., Reed,D.J., Reid,J., Ring,B.Z., Ringwald,M.,  
Santelin,A., Schneider,C., Sempke,C.A., Setou,M., Shimada,K.,  
Sultana,R., Takenaka,Y., Taylor,M.S., Teasdale,R.D., Tomita,K.,  
Verardo,T., Wagner,L., Wahlstedt,C., Wang,Y., Watanabe,Y.,  
Wells,C., Wilming,L.G., Wysshaw-Boris,A., Yanagisawa,M., Yang,I.,  
Yang,L., Yuen,Z., Zavolan,M., Zhu,Y., Zimmer,A., Carninci,P.,  
Hayashizaki,N., Hirozane-Kishikawa,T., Kono,H., Nakamura,M.,  
Sakazume,N., Sato,K., Shiraki,T., Waki,K., Kawai,J., Aizawa,K.,  
Arakawa,T., Fukuda,S., Hara,A., Hashizume,W., Imcman,K., Ishii,Y.,  
Itoh,M., Kagawa,I., Miyazaki,A., Sakai,K., Sasaki,D., Shibata,K.,  
Shingawa,A., Yasunishi,A., Yoshino,M., Waterston,R., Lander,E.S.,  
Rogers,J., Birney,B. and Hayashizaki,Y.  
Analysis of the mouse transcriptome based on functional annotation  
of 60,770 full-length cDNAs  
Nature 420, 563-573 (2002)

TITLE  
JOURNAL MEDLINE  
PUBMED 12466851  
COMMENT  
Contact: Yoshihide Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center(GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suenho-cho, Tsurumi-Ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@sc.riken.go.jp,  
URL: http://genome.gsc.riken.go.jp/  
Aizawa,K., Akimura,T., Arakawa,T., Carninci,P., Fukuda,S.,  
Hirozane,T., Imotani,K., Ishii,Y., Itoh,M., Kawai,J., Kono,H.,  
Miyazaki,A., Murata,M., Nakamura,M., Nomura,K., Numazaki,R.,  
Ohno,M., Sakai,K., Sakazume,N., Sasaki,D., Sato,K., Shibata,K.,  
Shiraki,T., Tagami,M., Waki,K., Watanabe,A., Muramatsu,M. and  
Hayashizaki,Y. Direct Submision  
Computational Analysis of Full-length Mouse cDNAs Compared with  
Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)  
Normalization and subtraction of cap-trapper-selected cDNAs to  
prepare full-length cDNA libraries for rapid discovery of new  
genes. Genome Res. 10 (10), 1617-1630 (2000)  
RIKEN integrated sequence analysis (RISA) system--384-format

sequencing pipeline with 384 multicapillary sequencer. Genome Res.  
10 (11), 1757-1771 (2000)  
Computer-based methods for the mouse full-length cDNA  
encyclopedia: real-time sequence clustering for construction of a  
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)  
cDNA library was prepared and sequenced in Mouse Genome  
Encyclopedia Project of Genome Exploration Research Group in Riken  
Genomic Sciences Center and Genome Science Laboratory in Riken  
Division of Experimental Animal Research in Riken contributed to  
prepare mouse tissues.  
Tissues were provided by Vassilis Aidinis ( Biomedical Sciences  
Research Center "Al. Fleming" Institute of Immunology 14-16 Al.  
Fleming street 16672 Vari, Greece ) whose assistance we gratefully  
acknowledge.  
Please visit our web site (http://genome.gsc.riken.go.jp) for  
further details.  
FEATURES  
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Location/Qualifiers  
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Qy 291 GGGACACACCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 350  
Db 123 GGGACACACCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 182  
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Db 183 GTCTCACTGCTGGGCAACGTGTGCTCTAGTGTGCTGTGTGCTGTGTGCTGTGTG 242  
Qy 411 GCGTACGACGACGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 470  
Db 243 GCGTACGACGACGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 302  
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Job time : 3677.59 secs

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GenCore version 5.1.6  
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## OM nucleic - nucleic search, using sw model

Run on: September 30, 2004, 19:03:02 ; Search time 6615.8 Seconds

(without alignments)  
11419.163 Million cell updates/sec

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Gapop 60.0 , Gapext 60.0

Searched: 3470272 seqs, 21671516995 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	1743	100.0	1743	6	BD269630 14273 rec
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4	1743	100.0	1743	6	AR372101 Sequence
5	1328	76.2	1458	6	BD015337 Novel pol
6	1081	62.0	1321	6	AX168141 Sequence
7	986	56.6	163964	6	AX356214 Sequence
8	926	53.1	1086	6	AX498184 Sequence
9	693	39.8	744	6	AY255573 Homo sapi
10	559	32.1	1066	6	AX647273 Sequence
11	445	25.5	1131	6	AY288417 Homo sapi
12	425	24.4	933	6	AX657504 Sequence
13	391	22.4	1737	6	AX549396 Sequence
14	326	18.7	1104	6	AX230123 Sequence
15	300	17.2	300	6	BD212934 Novel hum
16	298	17.1	760	6	BD129472 Human gen
17	198	11.4	300	6	BD128746 Human gen
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DEFINITION 14273 receptor, a G-protein coupled receptor.
ACCESSION  BD240720.1 GI:33050490
VERSION    JP 200522011-A/1.
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE  1 (bases 1 to 1743)
AUTHORS   Glucksmann, M.A. and Tsai, F.Y.
TITLE     14273 receptor, a G-protein coupled receptor
JOURNAL   Patent: JP 200522011-A 1 23-JUL-2002;
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Db 1741 CGG 1743

RESULT 2  
BD269630 1743 bp DNA linear PAT 17-JUL-2003  
LOCUS 14273 receptor, a novel G-protein coupled receptor.  
DEFINITION  
ACCESSION BD269630.1 GI:33079398  
VERSION JP 2002536997-A/1.  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE  
AUTHORS 1. (bases 1 to 1743)  
TITLE Glucksmann, M.A. and Tsai, F.Y.  
JOURNAL 14273 receptor, a novel G-protein coupled receptor  
Patent: JP 2002536997-A 1 05-NOV-2002;  
MILLENNIUM PHARMACEUTICALS INC

COMMENT  
OS Homo sapiens (human)  
PN JP 2002536997-A/1  
PD 05-NOV-2002  
PR 28-FEB-2000 JP 2000601160  
PM 26-FEB-1999 US 09/261599, 08-DEC-1999 US 09/456455 PI  
MARIA ALEXANDRA GLUCKSMANN, FONG YING TSAI  
PC C12N15/09, C07K14/705, C07K16/28, C12N1/15, C12N1/19, C12N1/21, PC  
C12N5/10,  
PC C12P21/02, C12O1/68, G01N33/15, G01N33/50, G01N33/53, G01N33/566,  
PC C12N15/00,  
PC C12N5/00  
CC 14273 receptor, a novel G-protein coupled receptor FH Key

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Location/Qualifiers  
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0;  
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RESULT 3  
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LOCUS AR228216 Sequence 2 from patent US 6448005.  
DEFINITION AR228216  
ACCESSION AR228216  
VERSION AR228216.1 GI:27266963  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 1743)  
AUTHORS Gluckmann,M.A. and Tsai,F.-Y.  
TITLE 14723 Receptor, a novel G-protein coupled receptor  
JOURNAL Patent: US 6448005-A 2 10-SEP-2002;  
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Best Local Similarity 100.0%; Pred. No. 0;  
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QY	1261	GTGCGTAATTAAGGGGTGATCACCAAGTTTCATTAATATTTTCCCTTATTAAGAGATTT	1320
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QY	1321	GTGGGCAAGTGCAGTGGTTCATGCTGCATGATCCACACAGTTTGGGAGGCGTGAAGTGGGT	1380
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QY	1381	GGATCACCTGAGTTCAGAGAGTTTCAGACCAACTGACCAACATGCTGAGACCCCGCTTC	1440
Db	1381	GGATCACCTGAGTTCAGAGAGTTTCAGACCAACTGACCAACATGCTGAGACCCCGCTTC	1440
QY	1441	TACTAAAAATTAATAAAAAATTTAGCTGGGAGTGTGTGGGCACTGTATCTTCACTA	1500
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QY 1561 AGATCGTCATTGCACTCCAAACAGGGCAACAAGAGTGAACCTCATCTTAAAAAAA 1620  
Db 1561 AGATCGTCATTGCACTCCAAACAGGGCAACAAGAGTGAACCTCATCTTAAAAAAA 1620  
QY 1621 AAAAAAAGATTGTAATGGGTTCTTTTAAATGTGAACCTTTTGTGTGTATA 1680  
Db 1621 AAAAAAAGATTGTAATGGGTTCTTTTAAATGTGAACCTTTTGTGTGTATA 1680  
QY 1681 TGATCAAAATTTAATATTTATTTATTTATGACTGTTCGCAAAAAA 1740  
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QY 1741 CGG 1743  
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RESULT 5  
BD015337  
LOCUS BD015337 1458 bp DNA linear PAT 27-AUG-2002  
DEFINITION Novel polypeptide.  
ACCESSION BD015337 GI:22556475  
VERSION BD015337.1 JP 2001211885-A/1.  
KEYWORDS JP 2001211885-A/1.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
Yoshimatsu,H., Sasaki,K., Nakatani,Y., Saeki,S., Miura,K. and  
Sekine,S.  
TITLE Novel polypeptide  
JOURNAL Patent: JP 2001211885-A 1 07-AUG-2001;  
COMMENT KOWA HAKKO KOGYO CO LTD  
OS Homo sapiens (human)  
PN JP 2001211885-A/1  
PD 07-AUG-2001  
PF 02-FEB-2000 JP 2000024921  
PI HAJIME YOSHIMATSU,KATSUOSHI SASAKI,YUKIE NAKATANI,SATOSHI PI  
SAEKI,  
PI KAZUMI MIURA,SUSUMU SEKINE  
PC C12N15/09,A01H5/00,A01K67/027,A61K38/00,A61K39/395,A61K39/395,  
PC A61K39/395,  
PC A61K45/00,A61P5/08,A61P35/00,C07K14/705,C07K16/28,C12N1/15, PC  
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Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1428; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 135 TCAAGGCGCAACACCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 194  
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QY 195 TTGCACTGTCTGTCTGTGGCAAGTGTGCGCCCTGTGTGTGTGTGTGTGTGTGTGT 254  
Db 209 TTGCACTGTCTGTCTGTGGCAAGTGTGCGCCCTGTGTGTGTGTGTGTGTGTGTGT 268  
QY 255 GCGGCGGACTGCTGT 314  
Db 269 GCGGCGGACTGCTGT 328  
QY 315 CTATCCCTGT 374  
Db 329 CTATCCCTGT 388  
QY 375 GCCACCTGTCTTCTAAGTATGACCTTGAAGCGGACGCTCACTTCACTGCTGCGCG 434  
Db 389 GCCACCTGTCTTCTAAGTATGACCTTGAAGCGGACGCTCACTTCACTGCTGCGCG 448  
QY 435 CGGTGAGCTGTGAGCGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 494  
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QY 495 GGG 554  
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Db 749 TACAGATCACAAGGATCAAGGAGAGGCTCAAGGAGGCTGAGGAGGCTGAGGAGGCT 808  
QY 795 ACCAGATCCGCGT 854  
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QY 855 TGTCTTCTTCATCATGT 914  
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QY 915 ACTTCAAGCAAGACTGT 974  
Db 929 ACTTCAAGCAAGACTGT 988  
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QY 1035 AGAAAAATTTTGT 1094  
Db 1049 AGAAAAATTTTGT 1108  
QY 1095 TCAAAAAAATGACTGT 1154  
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QY 1155 CACTGTGCGAGCTGT 1214  
Db 1169 CACTGTGCGAGCTGT 1228  
QY 1215 CACCTGTCTTTAAGAAATGAACTTATGCAATATGACATCAAGCGCTGTGTAAATTAAG 1274  
Db 1229 CACCTGTCTTTAAGAAATGAACTTATGCAATATGACATCAAGCGCTGTGTAAATTAAG 1288  
QY 1275 GGGTGATCAACAAATTTTCAATATATTTTCCCTTATTAAGAAATTTGTGGCAGGTGA 1334

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Oy		1335 GTGGTTCATGCCTGTAAATCCCAGCAGTTTGGAGCGTAGAGTGSGTGATCACCTGAAGT	1396
Dd		1349 GTGGTTATGACTGTAAATCCCCAGCAGTTTGGAGCGTAGAGTGSGTGATCACCTGAAGT	1408
Oy		1395 CAGAGTTTCGAGAACCAACTGACCACAATGTGTGAAACCCCGCTCTACT	1444
Dd		1409 CAGAGTTTCGAGAACCAACTGACCACAATGTGTGAAACCCCGCTCTACT	1458
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LOCUS	AXI68141	1321 bp	linear
DEFINITION	Sequence 59 from Patent WO0142288.		PAT 03-JUL-2001
ACCESSION	AXI68141		
VERSION	AXI68141.1	GI:14597419	
KEYWORDS	.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.		
REFERENCE	Butford,N., Baughn,M.R., Au-Young,J., Yang,J., Lu,D.A. and Reddy,R. <sup>1</sup>		
AUTHORS	G-protein coupled receptor		
TITLE	Patent: WO 0142288-A 59 14-JUN-2001;		
JOURNAL	Incyte Genomics, Inc. (US) Location/Qualifiers		
FEATURES	Source 1..1321 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606" /note="Incyte ID No: 5029478CB1"		
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	Beech Local Similarity     99.8%; Pred. No. 0;		
	Matches 1181; Conservative 0; Mismatches 2; Indels 0; Gaps 0;		
Oy		32 CAGGCGCGGGGAATGTCCTCCCTGAAATGCGCGGCGAGCGGGCGAGCGCCCTTGCGCAGC	91
Dd		18 CAGGCGCGGGGAATGTCCTCCCTGAAATGCGCGGCGAGCGGGCGAGCGCCCTTGCGCAGC	77
Oy		92 CTGGAGCAAAGCCAACCGCACCCGCTTTCTCTTCCGACGTGCAAGGGGACCAACCGG	151
Dd		78 CTGGAGCAAAGCCAACCGCACCCGCTTTCTCTTCCGACGTGCAAGGGGACCAACCGG	137
Oy		152 CTGGTGTCTGCGCGCGGTGGAACAACCGTGTGTGCTCATCTTTGCAAGTGTGCTGTG	211
Dd		138 CTGGTGTCTGCGCGCGGTGGAACAACCGTGTGTGCTCATCTTTGCAAGTGTGCTGTG	197
Oy		212 GGCAACGTGTGCGGCCTGTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	271
Dd		198 GGCAACGTGTGCGGCCTGTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	257
Oy		272 CTGGTACTCAACCTTCTTGCGCGGACCTGCTCTTCACTCAGCGCTATCCCTGTGGTGTG	331
Dd		258 CTGGTACTCAACCTTCTTGCGCGGACCTGCTCTTCACTCAGCGCTATCCCTGTGGTGTG	317
Oy		332 GCCGTGCGCTGTGACTGAGGCGCTGTGCTGTGAGGCCCGCTGTGCTGTGCTCTTCTAC	391
Dd		318 GCCGTGCGCTGTGACTGAGGCGCTGTGCTGTGAGGCCCGCTGTGCTGTGCTCTTCTAC	377
Oy		392 GTGATGAAACCTGAGCGGAGCGGTACAATCTCAACGTGTGCGCGCGGTGTGAGCTGAGAGCG	451
Dd		378 GTGATGAAACCTGAGCGGAGCGGTACAATCTCAACGTGTGCGCGCGGTGTGAGCTGAGAGCG	437
Oy		452 ATGTGTGTCATCTGTGACCTGTCAGCGCGCGCGGTGTGTCAGCGCGCGCGCGCGCGGACA	511
Dd		438 ATGTGTGTCATCTGTGACCTGTCAGCGCGCGCGGTGTGTCAGCGCGCGCGCGCGCGGACA	497
Oy		512 GTGCTGTGCGCGCTCATCTGTGGGGCTATTTCGGCGGTGTGCGCTGTGCTGTGCGGTCTTC	571

[illegible]



This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em: EMBL; Sw: SWSRPT; Tr: TRMBL; Wp: WORMPEP; information on the WORMPEP database can be found at [http://www.sanger.ac.uk/Projects/C\\_elegans/wormpep](http://www.sanger.ac.uk/Projects/C_elegans/wormpep). This sequence was generated from part of bacterial clone contigs of human chromosome 10, constructed by the Sanger Centre Chromosome 10 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/Chr10>. RP11-30E16 is from the library RP11-11.1 constructed by the group of Pieter de Jong. For further details see <http://www.chori.org/bacpac/home.htm>.

VECTOR: pBACE3.6

This sequence is the entire insert of clone RP11-30E16. The true left end of clone RP11-43702 is at 129920 in this sequence. The true right end of clone RP11-313N18 is at 82571 in this sequence.

#### FEATURES

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5467..5734  
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Best Local Similarity 100.0%; Pred. No. 0;

Matches 986; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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VERSION AX498184.1 GI:23343113
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  1. Chen, R., Chu, Z. L., Dang, H. T., Lowitz, K. P. and Pride, C.
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Query Match 53.1%; Score 926; DB 6; Length 1086;

Best Local Similarity 99.7%; Pred. No. 0;

Matches 1076; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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DB 68 CCGGCTTTCCTTCTCTCCAGAGTCAAGGAGCGAGCAACGCGCTGTGCTGGCGCGGTGG 127
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LOCUS Sequence 1465 from Patent EP1270724.
DEFINITION AX647273
ACCESSION AX647273
VERSION AX647273.1 GI:28800736
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
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            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE Suwa, M., Asai, K., Akiyama, Y. and Aburatani, H.
AUTHORS Guanosine triphosphate-binding protein coupled receptors
TITLE Patent: EP 1270724-A 1465 02-JAN-2003;
JOURNAL National Institute of Advanced Industrial Science and Technology,
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ACCESSION AY288417
VERSION AY288417.1 GI:32165517
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REFERENCE Fredriksson, R., Hoglund, P.J., Gloriam, D.E., Lagerstrom, M.C. and
AUTHORS Schioth, H.B.
TITLE Seven evolutionarily conserved human rhodopsin G protein-coupled
JOURNAL receptors lacking close relatives
MEDLINE FEBS Lett. 554 (3), 381-388 (2003)
PUBMED 14623098
REFERENCE 2 (bases 1 to 1131)
AUTHORS Fredriksson, R., Hoglund, P.J., Gloriam, D.E.I., Lagerstrom, M.C. and
            Schioth, H.B.
TITLE Direct Submission
JOURNAL Submitted (30-APR-2003) Neuroscience; Unit of Pharmacology, Uppsala
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 REFERENCE 1  
 AUTHORS Vovell, G., Wood, L.S., Parodi, L.A. and Lind, P.  
 TITLE Novel g protein-coupled receptors  
 JOURNAL Patent: WO 0162797-A 10 30-AUG-2001;  
 PHARMACIA & UPJOHN COMPANY (US)  
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 REFERENCE 1  
 AUTHORS Williams, L.T., Escobedo, J., Innis, M.A., Garcia, P.D., Klinger, J.S.,  
 Reinhard, C., Giese, K., Randazzo, F., Kennedy, G.C., Pot, D.,  
 Kassam, A., Lamson, G., Drmanac, R., Crkvenjakov, R., Dickson, M.,  
 Drmanac, S., Labat, I., Leebkowitz, D., Kita, D., Garcia, V., Jones, L.W.  
 and Crain, B.S.  
 TITLE Novel human genes and gene expression products 11  
 JOURNAL Patent: JP 2002519000-A 1076 02-JUL-2002;  
 CHIRON CORP, HYSEQ INC  
 COMMENT OS Homo sapiens (human)  
 PN JP 2002519000-A/1076  
 PD 02-JUL-2002  
 PF 28-JAN-1999 JP 2000555680  
 PR 28-JAN-1998 US 60/072910, 24-FEB-1998 US 60/075954 PR  
 31-MAR-1998 US 60/080114, 03-APR-1998 US 60/080515 PR  
 03-APR-1998 US 60/080666, 21-OCT-1998 US 60/105234 PR  
 28-OCT-1998 US 60/105877  
 PI LOUIS T WILLIAMS, JAIME ESCOBEDO, MICHAEL A INNIS, PABLO PI  
 DOMINGUEZ GARCIA,  
 PI JULIE SUDUTH KLINGER, CHRISTOPH REINHARD, KLAUSE GIESE, FILIPPO  
 PI RANDAZZO,  
 PI GIULIA C KENNEDY, DAVID POT, ALTAI KASSAM, GEORGE LAMSON, RADOJE  
 PI DRMANAC,  
 PI RADOJE CRKVENJAKOV, MARK DICKSON, SNEZANA DRMANAC, IVAN LABAT,  
 PI DENA LESHKOWITZ, DAVID KITA, VERONICA GARCIA, LEE WILLIAM JONES,  
 PI BIRGIT STACHE CRAIN  
 PC C12N15/09, C12N15/09, C07K14/47, C07K14/82, C07K16/18, C12N1/15, PC  
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

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Title: US-10-077-698-2

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	1743	100.0	1743	6	ABQ81226 Human 142
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5	1086	62.3	1086	6	ABE73343 CDNA encod
6	1081	62.0	1321	4	AA808854 Human G-P
7	1035	59.4	1086	6	AB873398 DNA encod
8	1035	59.4	1086	7	ACA60998 CDNA encod
9	1035	59.4	1086	8	AD847641 Human CDN
10	984	56.5	1086	6	AB873399 DNA encod
11	926	53.1	1086	6	ABT04869 Human G P
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KW	14273 receptor; cardiovascular disease; congestive heart failure;	
KW	cardiac myocyte hypertrophy; ss.	
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PR	26-FEB-1999; 99US-00261599.	
XX	08-DEC-1999; 99US-00456455.	
PA	(MILT-) MILLENIUM PHARM INC.	
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PI	Gluckemann MA, Tsai F;	
XX		
DR	WPI, 2000-587184/55.	
DR	P-PSDB; AAB08538.	
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PT	14273 receptor polynucleotides and polypeptides, useful in the diagnosis	
PT	and treatment of receptor-mediated disorders such as cardiovascular	
PT	diseases.	
XX		
PS	Claim 3, Fig 1, 105pp; English.	
XX		
CC	The present sequence encodes a human G-protein coupled receptor,	
CC	designated 14273 receptor. The G-protein coupled receptor 14273	
CC	polypeptide is used to produce antibodies, in drug screening assays, and	

CC to screen for agonist and antagonists. The antibodies are used for  
 CC diagnostic applications, and to assess abnormal tissue distributions or  
 CC abnormal expression during development. The antibodies are also useful  
 CC for tissue typing, and in forensic identification, as well as for  
 CC inhibiting receptor function. The 14273 polynucleotides can be used to  
 CC express the protein, to detect 14273 mRNA, to detect genetic alterations  
 CC in the 14273 gene, and as a source of primers and probes. The 14273  
 CC polynucleotides and polypeptides are also useful as a target for  
 CC diagnosis and treatment of receptor-mediated disorders, especially  
 CC cardiovascular diseases such as congestive heart failure caused by  
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Best Local Similarity 100.0%; Pred. No. 0;

Matches 1743; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 QY 1201 ACCCTCATGATGACACCTGCTTTAAGAAATGAACCTTATGCAATATGACATCAAGC 1260  
 Db 1201 ACCCTCATGATGACACCTGCTTTAAGAAATGAACCTTATGCAATATGACATCAAGC 1260  
 QY 1261 GTGCTAAATTAAGGCTGATCAACAAATTTTCAATATATTTTCTTATTAAGATTT 1320  
 Db 1261 GTGCTAAATTAAGGCTGATCAACAAATTTTCAATATATTTTCTTATTAAGATTT 1320  
 QY 1321 GTTGGCCAGGTGAGAGTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
 Db 1321 GTTGGCCAGGTGAGAGTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
 QY 1381 GGATCACTGAGGTCAAGAGTGTGAGACCAACCTGACCAACATGTGTGAGACCCCGTCTC 1440  
 Db 1381 GGATCACTGAGGTCAAGAGTGTGAGACCAACCTGACCAACATGTGTGAGACCCCGTCTC 1440  
 QY 1441 TACTAAATTAATAAAAAAAAAATTAAGCTGAGAGTGTGTGCTGCTGCTGCTGCTGCT 1500  
 Db 1441 TACTAAATTAATAAAAAAAAAATTAAGCTGAGAGTGTGTGCTGCTGCTGCTGCTGCT 1500  
 QY 1501 CTTGGAGGCTGAAACCAAGAAATCTTGAACCTGGAAGGCGAGGCTGCAAGTGAACCG 1560  
 Db 1501 CTTGGAGGCTGAAACCAAGAAATCTTGAACCTGGAAGGCGAGGCTGCAAGTGAACCG 1560  
 QY 1561 AGATCGGCAATGCACTCCAAACAGGCAACAGAGTGAATCTCTTAAATTAATTAATTA 1620  
 Db 1561 AGATCGGCAATGCACTCCAAACAGGCAACAGAGTGAATCTCTTAAATTAATTAATTA 1620  
 QY 1621 AAAAAAAGATTTGTTATGAGGCTCTTAAATGTAATCTTTTATGTTGTTAATA 1680  
 Db 1621 AAAAAAAGATTTGTTATGAGGCTCTTAAATGTAATCTTTTATGTTGTTAATA 1680  
 QY 1681 TGATCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1740  
 Db 1681 TGATCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1740  
 QY 1741 CGG 1743  
 Db 1741 CGG 1743

RESULT 2

AB081226 standard; cDNA; 1743 BP.

AB081226;

05-DEC-2002 (first entry)



XX Human 14273 nucleic acid, associated with metabolic disorder.  
 DE Human; 14273; metabolic disorder; obesity; diabetes; anorexia; cachexia;  
 KW anorectic; antidiabetic; anabolic; transgenic animal; gene therapy; gene;  
 KM ss.  
 XX Homo sapiens.  
 OS  
 FH Key Location/Qualifiers  
 FT CDS 44..1129  
 FT /\*tag= a  
 FT /product= "14273"  
 XX  
 XX MO200267868-A2.  
 XX  
 XX 06-SEP-2002.  
 XX  
 XX 26-FEB-2002; 2002MO-US006131.  
 XX  
 XX 26-FEB-2001; 2001US-0271655P.  
 XX  
 XX (MILL-) MILLENNIUM PHARM INC.  
 XX  
 XX Gimeno R, Tsai F;  
 XX WPI; 2002-698629/75.  
 DR P-PSDB; ABB79906.  
 XX  
 XX  
 PT Identifying a nucleic acid associated with a metabolic disorder, useful  
 PT for diagnosing metabolic disorders, e.g. obesity, comprises contacting  
 PT the sample with a probe comprising at least 25 contiguous nucleotides of  
 PT the 14273 gene.  
 XX  
 XX Claim 1; Fig 1A-B; 95pp; English.  
 XX  
 XX The present sequence is that of a human nucleic acid, designated 14273,  
 CC associated with metabolic disorders. 14273 molecules are expressed at  
 CC high levels in adipose tissue, e.g. white adipose tissue and brown  
 CC adipose tissue, as well as in pancreatic islets. They are upregulated  
 CC during exposure to cold (i.e. under conditions that affect brown or white  
 CC adipocyte metabolism) and downregulated in genetic models of obesity.  
 CC 14273 knock-out mice, when fed a high-fat diet, gain more weight and have  
 CC larger epididymal fat pads than wild-type mice. They also show increased  
 CC levels of glucose and insulin upon fasting. A 14273 agonist may be  
 CC beneficial to the treatment of obesity and/or type II diabetes by  
 CC preventing fat accumulation on a high-fat diet and/or the increases in  
 CC endogenous glucose production which occur in type II diabetes. The  
 CC present invention provides 14273 nucleic acids, polypeptides and  
 CC antibodies useful for the diagnosis and treatment of metabolic disorders  
 CC including obesity, anorexia, cachexia and diabetes. Also provided are  
 CC methods for identifying a subject having a metabolic disorder, for  
 CC identifying a compound capable of modulating metabolic activity, methods  
 CC for modulating metabolic activity or adipocyte activity (hyperplastic  
 CC growth, hypertrophic growth or lipogenesis), methods for modulating  
 CC lipogenesis or lipolysis in a subject, and a method for regulating  
 CC endogenous glucose levels  
 CC  
 XX  
 SQ Sequence 1743 BP; 380 A; 479 C; 451 G; 433 T; 0 U; 0 Other;  
 Query Match 100.0%; Score 1743; DB 6; Length 1743;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1743; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db	121	CTTCTTCCGAGCTCAAGGCGACACCGGCTGTCTGGCCGCGGAGAGAACCT	180
Qy	181	GCTGCTCATCTTTTTCAGTGTGCTGCTGGGCAACGTGTGCGCTGTGTGGC	240
Db	181	GCTGCTCATCTTTTTCAGTGTGCTGCTGGGCAACGTGTGCGCTGTGTGGC	240
Qy	241	GCGCCGACGACGCGCGCGCGAGCTGCTGCTGTAACCTCTTTCGCGGACCT	300
Db	241	GCGCCGACGACGCGCGCGCGAGCTGCTGCTGTAACCTCTTTCGCGGACCT	300
Qy	301	GCTCTTATCAGGCTATCCCTCTGTGTGCTGCGCGCTGAGCTGAGGCTGGTCT	360
Db	301	GCTCTTATCAGGCTATCCCTCTGTGTGCTGCGCGCTGAGCTGAGGCTGGTCT	360
Qy	361	GAGCCCGGTTGCTGCCACCTGCTCTTCTAAGTAGACCTTAGCGGCAAGCTACAT	420
Db	361	GAGCCCGGTTGCTGCCACCTGCTCTTCTAAGTAGACCTTAGCGGCAAGCTACAT	420
Qy	421	CCTCAGCTGGCGCGGCTCAGCTGAGCGGATGTGATGATGATCTGACCTGACGCGG	480
Db	421	CCTCAGCTGGCGCGGCTCAGCTGAGCGGATGTGATGATGATCTGACCTGACGCGG	480
Qy	481	CGTGCAGGATCTGAGGCGGCGGCGGAGTGTGCTGAGCTGAGCTATGAGGCTATTG	540
Db	481	CGTGCAGGATCTGAGGCGGCGGCGGAGTGTGCTGAGCTGAGCTATGAGGCTATTG	540
Qy	541	GAGCGGTGCGCTGTGCTGTGCTGTGCTTCTTCTGAGTGTGCTGCGGACGCTCCCGG	600
Db	541	GAGCGGTGCGCTGTGCTGTGCTGTGCTTCTTCTGAGTGTGCTGCGGACGCTCCCGG	600
Qy	601	GCGCGACGAGAAATTTTCAATTTGCACTGATTTGGCCCACTTCTCTGAGAGATTC	660
Db	601	GCGCGACGAGAAATTTTCAATTTGCACTGATTTGGCCCACTTCTCTGAGAGATTC	660
Qy	661	GTTGGATGTCTCTTTTGTGAACTCTTGTGCTGCTGAGCTGATTTGATCAG	720
Db	661	GTTGGATGTCTCTTTTGTGAACTCTTGTGCTGCTGAGCTGATTTGATCAG	720
Qy	721	TTACTCCAAATTTTACAGATCAACAAAGGATCAAGAGAGCTCAGGTAAGCTGGC	780
Db	721	TTACTCCAAATTTTACAGATCAACAAAGGATCAAGAGAGCTCAGGTAAGCTGGC	780
Qy	781	CTACTGGAAGGACCAATTCGCGGTGTCCAGACGACTTCGCGCTCTTCCGACCT	840
Db	781	CTACTGGAAGGACCAATTCGCGGTGTCCAGACGACTTCGCGCTCTTCCGACCT	840
Qy	841	CTTCCCTCATGCTCTCTTCTTCAATCATGTGAGGCCCATCATCATCATCTCTCT	900
Db	841	CTTCCCTCATGCTCTCTTCTTCAATCATGTGAGGCCCATCATCATCATCTCTCT	900
Qy	901	CATCTGTATCAGAACTTCAAGCAAGACGTGATCTGCGCTCTTCTTCTTCTGGGT	960
Db	901	CATCTGTATCAGAACTTCAAGCAAGACGTGATCTGCGCTCTTCTTCTTCTGGGT	960
Qy	961	GGTGCTTCAATTTGCTAATTCAGCCCTAAACCCCATCTCTTCAACAATGACACTGTG	1020
Db	961	GGTGCTTCAATTTGCTAATTCAGCCCTAAACCCCATCTCTTCAACAATGACACTGTG	1020
Qy	1021	CAGGAATGATGGAAGAAATTTTGTGCTCTGCTGCTCCAGAAAGGAGGACATTTT	1080
Db	1021	CAGGAATGATGGAAGAAATTTTGTGCTCTGCTGCTCCAGAAAGGAGGACATTTT	1080
Qy	1081	AACAGACATCTGTCAAAAGAAATGACTGTGATTAATTTTGTGCTAATTTTCTTAT	1140
Db	1081	AACAGACATCTGTCAAAAGAAATGACTGTGATTAATTTTGTGCTAATTTTCTTAT	1140
Qy	1141	AGCGAATTTTCTCAACCTGCGAGCTGTGGCATGCTTTTAAACAGAGTTCAATTTCCAGT	1200
Db	1141	AGCGAATTTTCTCAACCTGCGAGCTGTGGCATGCTTTTAAACAGAGTTCAATTTCCAGT	1200
Qy	1201	ACCTCATAGTGCACCTGCTTTAAGAAATGAACCTATGCAATTAAGCATCAAGC	1260
Db	1201	ACCTCATAGTGCACCTGCTTTAAGAAATGAACCTATGCAATTAAGCATCAAGC	1260

Db	1201	ACCCCTCAGTCAGTCACCCCTGCTTTAGAAATATGAACTATGCAAAATATGACATCCACACG	1260
QY	1261	GTGCGTAATATTAAAGGCGGTGATCCACAAAGTTTCATATATTTTCCCTTTATATAAAGATTT	1320
Db	1261	GTGCGTAATATTAAAGGCGGTGATCCACAAAGTTTCATATATTTTCCCTTTATATAAAGATTT	1320
QY	1321	GTTGGCCAGGTGCAGTGGTTTATGCTCTGTATATCCACAGATTTTGGGAGGCTGAAGTGGGT	1380
Db	1321	GTTGGCCAGGTGCAGTGGTTTATGCTCTGTATATCCACAGATTTTGGGAGGCTGAAGTGGGT	1380
QY	1381	GGATCACCCTGAGTCAGGAGTTTCGAGACCAACTGACCAACATGAGTGAGACCCCGTCTC	1440
Db	1381	GGATCACCCTGAGTCAGGAGTTTCGAGACCAACTGACCAACATGAGTGAGACCCCGTCTC	1440
QY	1441	TACTATAAATATATAAAAAAAAAAATTAGCTGGAGTGGTGGGCACTGTAAATCTTAGCTA	1500
Db	1441	TACTATAAATATATAAAAAAAAAAATTAGCTGGAGTGGTGGGCACTGTAAATCTTAGCTA	1500
QY	1501	CTTGGGAGGCTGAACCAAGAGAAATCTTTGAACCTGGGAGGCAAGGTTGCAGTGAGCGG	1560
Db	1501	CTTGGGAGGCTGAACCAAGAGAAATCTTTGAACCTGGGAGGCAAGGTTGCAGTGAGCGG	1560
QY	1561	AGATCGTGGCCATTGCATCTCCAAACCAAGGCAACAAGATGAAATCTCCATCTTAAAAA	1620
Db	1561	AGATCGTGGCCATTGCATCTCCAAACCAAGGCAACAAGATGAAATCTCCATCTTAAAAA	1620
QY	1621	AAAAAAGATTTGTATTATGGGTTCCCTTTAATATGAACTTTTATAGTGTGTTGTATA	1680
Db	1621	AAAAAAGATTTGTATTATGGGTTCCCTTTAATATGAACTTTTATAGTGTGTTGTATA	1680
QY	1681	TGATCAATTTAATATAATTTATTTATGACTGTTCAACAAAAA	1740
Db	1681	TGATCAATTTAATATAATTTATTTATGACTGTTCAACAAAAA	1740
QY	1741	CGG 1743	
Db	1741	CGG 1743	

```

RESULT 3
AA166039
ID      AA166039 standard; cDNA, 1458 BP.
XX
XX
AC      AA166039;
XX
XX
DT      08-JAN-2002 (first entry)
XX
DE      Human G protein-coupled receptor encoding cDNA SEQ ID NO 2.
XX
KW      Human; G protein-coupled receptor; cytosstatic; cancer; hypohypophyseism;
XX      ss.
XX
OS      Homo sapiens.
XX
XX      Key
FH      Location/Qualifiers
FT      58..1143
CDS     /*tag=a
FT      /product="G protein-coupled receptor"
FT      /note="claimed in claim 6"
XX
XX      JP2001211885-A.
XX
XX      07-AUG-2001.
XX
XX      02-FEB-2000; 2000JP-00024921.
XX
XX      02-FEB-2000; 2000JP-00024921.
XX
XX      (KYOW ) KYOWA HAKKO KOGYO KK.
XX
XX      WPI; 2001-629567/73.
XX      DR      P-PSDB; AAM51426.
XX

```

PT A new G protein-coupled receptor polypeptide.  
XX  
PS  
XX Claim 6, Page 41-42; 52pp; Japanese.  
XX  
CC The invention relates to a human G protein-coupled receptor polypeptide  
CC with cytosolic activity and used for the treatment of cancers or  
CC hypophosphatism  
XX  
XX Sequence 1458 BP; 271 A; 445 C; 386 G; 356 T; 0 U; 0 Other;

Query Match	76.2%	Score 1328;	DB 4;	Length 1458;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1428; Conservative	0;	Mismatches 2;	Indels 0;	Gaps 0;

OY	15	AGACGGCTGGGGCGCCAGGCGCGGGAAATGTCCTCGAATGCGCGGGAGGGGCG	74
Db	29	AGACCGCTGCGGGCGCCAGGCGCGGGAAATGTCCTCGAATGCGCGGGAGGGGCG	88
OY	75	ACGGCGCCCTTGCGGAGCCTGGAGGAGCGAACCGGACCCGGCTTTCCTTCTTCGACG	134
Db	89	ACGGCGCCCTTGCGGAGCCTGGAGGAGCGAACCGGACCCGGCTTTCCTTCTTCGACG	148
OY	135	TCAAGGGCGAACCAACCGGCTGGTGGCGGGGTGGAGACAACGGTGGTGGTGCATCT	194
Db	149	TCAAGGGCGAACCAACCGGCTGGTGGCGGGGTGGAGACAACGGTGGTGGTGCATCT	208
OY	195	TTGAGATGTGCTGCTGGGCAACGTGTGCGCCCTGTGTCTGTGGCGCGCGACGACGC	254
Db	209	TTGAGATGTGCTGCTGGGCAACGTGTGCGCCCTGTGTCTGTGGCGCGCGACGACGC	268
OY	255	GCGGCGGGAAGCTGCGCTGGTACTCAACCTTCCTTCTGCGGGAAGCTGCTTTATCAGC	314
Db	269	GCGGCGGGAAGCTGCGCTGGTACTCAACCTTCCTTCTGCGGGAAGCTGCTTTATCAGC	328
OY	315	CTATTCCTCTGTGTGGCGGTGGCGTGAAGCTGGCTGTGGAGCCCGCTTGGCT	374
Db	329	CTATTCCTCTGTGTGGCGGTGGCGTGAAGCTGGCTGTGGAGCCCGCTTGGCT	388
OY	375	GCGACCTGCTCTTCTACGTGATGACCCCTGAGCGGACGGTACACATCTCAGCTGGCGG	434
Db	389	GCGACCTGCTCTTCTACGTGATGACCCCTGAGCGGACGGTACACATCTCAGCTGGCGG	448
OY	435	CGGTACAGCTTGAGACGCAATGTTGTGCAATCGTGACCTGACGCGCGCGCGGGTCCGTG	494
Db	449	CGGTACAGCTTGAGACGCAATGTTGTGCAATCGTGACCTGACGCGCGCGCGGGTCCGTG	508
OY	495	GGCGGCGGGCGCGGACAGTGTGCTGGCGGCTCATCTGGGAGCTATTGCGCGGTGCGCGCTC	554
Db	509	GGCGGCGGGCGCGGACAGTGTGCTGGCGGCTCATCTGGGAGCTATTGCGCGGTGCGCGCTC	568
OY	555	TGCGCTCTGCGGTCTTCTTTGAGTCGTGCTCCGCGAACGGCTCCCGCGCGCGACCGAGAA	614
Db	569	TGCGCTCTGCGGTCTTCTTTGAGTCGTGCTCCGCGAACGGCTCCCGCGCGCGACCGAGAA	628
OY	615	TTTGGATTGGACCTGATTTTGGCCCAACATTCCTGGAGAGATCTCGTGGGATGTCTCTT	674
Db	629	TTTGGATTGGACCTGATTTTGGCCCAACATTCCTGGAGAGATCTCGTGGGATGTCTCTT	688
OY	675	TTGTACTTTGAACTTCTTGTGTGCGAGGACTGTGATTTGTGATCAGTTACTCCAAAATT	734
Db	689	TTGTACTTTGAACTTCTTGTGTGCGAGGACTGTGATTTGTGATCAGTTACTCCAAAATT	748
OY	735	TACGATATCAAAAGGCATCAAGAAAGAGCTCAAGTAAAGCTGGCCCTAATCGGAGAGCC	794
Db	749	TACGATATCAAAAGGCATCAAGAAAGAGCTCAAGTAAAGCTGGCCCTAATCGGAGAGCC	808
OY	795	ACCAAGATCCGGGTGTCCAGAGAGACTTCCGAGCTTTCGCAACCTTCTTCCTCATG	854
Db	809	ACCAAGATCCGGGTGTCCAGAGAGACTTCCGAGCTTTCGCAACCTTCTTCCTCATG	868
OY	855	TCTCCTTCTTCATCATGTGAGAGCCCATCATCATCAGCATCTCTCTCATCTGTATCAGA	914
Db	869	TCTCCTTCTTCATCATGTGAGAGCCCATCATCATCAGCATCTCTCTCATCTGTATCAGA	928



QY 557 CCTCTGCGCTCTTTCAGATGTCGCCGAAGGCTCCCGGCGCCGACAGAAATT 616  
 Db 541 CCTCTGCGCTCTTTCAGATGTCGCCGAAGGCTCCCGGCGCCGACAGAAATT 600  
 QY 617 TCGATTGCACTGATTTGGCCCACTTCCTGGAGAGATCTCTGGATGTCCTTTT 676  
 Db 601 TCGATTGCACTGATTTGGCCCACTTCCTGGAGAGATCTCTGGATGTCCTTTT 660  
 QY 677 GTTACTTGAACCTTCTGGTCCAGAGCTGTCATTTGATGATGTTACTCCAAATTTA 736  
 Db 661 GTTACTTGAACCTTCTGGTCCAGAGCTGTCATTTGATGATGTTACTCCAAATTTA 720  
 QY 737 CAGATCAAAAGGATCAAGAGAGGCTCAAGGTAAGCTGAGCTTCTGAGAGCCAC 796  
 Db 721 CAGATCAAAAGGATCAAGAGAGGCTCAAGGTAAGCTGAGCTTCTGAGAGCCAC 780  
 QY 797 CAGATCCGCGTGTCCAGAGAGACTTCGGCTCTTCCGCACTCTTCTCTCATGATC 856  
 Db 781 CAGATCCGCGTGTCCAGAGAGACTTCGGCTCTTCCGCACTCTTCTCTCATGATC 840  
 QY 857 TCCCTTTCATCATGTGAGGCCCATGATCATCACTCCCTCATCTGATCAGAAC 916  
 Db 841 TCCCTTTCATCATGTGAGGCCCATGATCATCACTCCCTCATCTGATCAGAAC 900  
 QY 917 TTCAGCAAGACCTGTCATCTGCGCGTCCCTCTTCTTGGAGTGGCTTCAATTT 976  
 Db 901 TTCAGCAAGACCTGTCATCTGCGCGTCCCTCTTCTTGGAGTGGCTTCAATTT 960  
 QY 977 GCTAATTCAGCCCTAAACCCCATCTCTTAACAATGACATGTCAGATGAG 1036  
 Db 961 GCTAATTCAGCCCTAAACCCCATCTCTTAACAATGACATGTCAGATGAG 1020  
 QY 1037 AAAATTTTGTGCTCTGCTGTCGCCAAGAGGAGCAATTTAAACAACATCTGTC 1096  
 Db 1021 AAAATTTTGTGCTCTGCTGTCGCCAAGAGGAGCAATTTAAACAACATCTGTC 1080  
 QY 1097 AAAAGAAATGACTTGATTAATTTCTGCTAATTTTCTTATAGCGAGTTTCTGCA 1156  
 Db 1081 AAAAGAAATGACTTGATTAATTTCTGCTAATTTTCTTATAGCGAGTTTCTGCA 1140  
 QY 1157 CTTGGCGAGCTGTGGCAATGC 1176  
 Db 1141 CTTGGCGAGCTGTGGCAATGC 1160  
 RESULT 5  
 AB573343  
 ID AB573343 standard; cDNA; 1086 BP.  
 XX  
 AC AB573343;  
 XX  
 DT 04-DEC-2002 (first entry)  
 XX  
 DE cDNA encoding human GPCR HF1948.  
 XX  
 KW Human; transmembrane receptor; G-protein coupled receptor; GPCR; allergy;  
 KW hypertension; reflux disease; depression; migraine; schizophrenia; ulcer;  
 KW psychiatric disorder; asthma; bronchospasm; anaesthesia;  
 KW myocardial infarction; MI; stroke; glaucoma; anxiety;  
 KW prostatic hyperplasia; epilepsy; prostate cancer; rhinitis; angina;  
 KW prostatic hypertrophy; gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN W0200268600-A2.  
 XX  
 PD 06-SEP-2002.  
 XX  
 PF 26-FEB-2002; 2002WO-US005625.  
 XX  
 PR 26-FEB-2001; 2001US-0271913P.  
 XX

PA (AREN-) ARENA PHARM INC.  
 XX  
 PI Liaw CW, Chalmers DT, Behan DP, Maciejewski-Jenior D, Leonard JN;  
 PI Lin I, Ortuno D;  
 XX  
 DR WPI; 2002-706980/76.  
 DR P-PSDB; ABG95157.  
 XX  
 PT New human G-protein coupled receptor (GPCR), useful for screening agonist  
 PT or inverse agonist compounds for treating diseases associated with GPCR.  
 XX  
 PS Claim 23; Page 122-123; 201pp; English.  
 XX  
 CC The present invention relates to transmembrane receptors, particularly  
 CC endogenous human G-protein coupled receptors (GPCRs), mutant (non-  
 CC endogenous) versions of the GPCRs, and the polynucleotide sequences  
 CC encoding them. The GPCRs are useful for screening agonist or inverse  
 CC agonist compounds for treating diseases associated with GPCR. Diseases  
 CC that can be treated with such compounds include allergies, hypertension,  
 CC reflux disease, depression, migraine, schizophrenia, ulcers, psychotic  
 CC disorders, asthma, bronchospasm, anaesthesia, myocardial infarction (MI),  
 CC stroke, glaucoma, prostatic hyperplasia, epilepsy, prostate cancer,  
 CC anxiety, prostatic hypertrophy, rhinitis, and angina. The present  
 CC sequence encodes an endogenous human GPCR  
 XX  
 SQ Sequence 1086 BP; 182 A; 348 C; 295 G; 261 T; 0 U; 0 Other;  
 Query Match 62.3%; Score 1086; DB 6; Length 1086;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1086; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 44 ATGTCCCTGAATGCGCGCGGAGCGCGGAGCGCGCTTGTGGACCTGAGCAAGCC 103  
 Db 1 ATGTCCCTGAATGCGCGCGGAGCGCGGAGCGCGCTTGTGGACCTGAGCAAGCC 60  
 QY 104 AACGCAACCGCTTTCCTTCTTCCGAGTCAAGGCGCAACCGCGCTGTGGGCC 163  
 Db 61 AACGCAACCGCTTTCCTTCTTCCGAGTCAAGGCGCAACCGCGCTGTGGGCC 120  
 QY 164 GCGGTGAGACAACCGGTGCTGCTCATCTTTGACATGTCGTGTGGCAACGTTGTC 223  
 Db 121 GCGGTGAGACAACCGGTGCTGCTCATCTTTGACATGTCGTGTGGCAACGTTGTC 180  
 QY 224 GCCCTGTGCTGTGGCGCGCGAGCGCGCGCGAGCTGCTGCTGTAATCAAC 283  
 Db 181 GCCCTGTGCTGTGGCGCGCGAGCGCGCGCGAGCTGCTGCTGTAATCAAC 240  
 QY 284 CTCTTCTGCGGAGCTGCTTCTTCAATGAGGCTATCCCTGTGAGTGGCGGCTGG 343  
 Db 241 CTCTTCTGCGGAGCTGCTTCTTCAATGAGGCTATCCCTGTGAGTGGCGGCTGG 300  
 QY 344 ACTGAGGCTGTGCTGTGGGCCCGGTTGCTGCACTGCTCTTCAAGTATGACCTTG 403  
 Db 301 ACTGAGGCTGTGCTGTGGGCCCGGTTGCTGCACTGCTCTTCAAGTATGACCTTG 360  
 QY 404 AGCGGACGTCACATCTTCAAGCTGCGCGGCTGACGCTGAGAGCGCATGTGTGATC 463  
 Db 361 AGCGGACGTCACATCTTCAAGCTGCGCGGCTGACGCTGAGAGCGCATGTGTGATC 420  
 QY 464 GTGCACTGCAAGCGCGCGGTGCTGCTGCGGCGCGGCGCGGAGTGTGCGCG 523  
 Db 421 GTGCACTGCAAGCGCGCGGTGCTGCTGCGGCGCGGCGCGGAGTGTGCGCG 480  
 QY 524 CTGATCTGGGCTATTGCGCGGTGCGCGCTGCTGCTGCTCTTCTTCAAGTGTGTC 583  
 Db 481 CTGATCTGGGCTATTGCGCGGTGCGCGCTGCTGCTGCTCTTCTTCAAGTGTGTC 540  
 QY 584 CCGCAACGCTCCCGCGCGCGAGCGAGAAATTTGATTTGACACTGATTTGGCCAC 643  
 Db 541 CCGCAACGCTCCCGCGCGCGAGCGAGAAATTTGATTTGACACTGATTTGGCCAC 600  
 QY 644 ATTCTGAGAGATCTGTGAGATGTCTTTTGTACTTTGAACCTTGTGTGCGCAGGA 703









Db 361 AGCGGACGCTGACCATCTCTACGCTGGCGGGTCAAGCTTGAGGCGCATGTGTGATC 420  
 Qy 464 GTGACCTTGAGCGCGCGGTGCTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 523  
 Db 421 GTGACCTTGAGCGCGGGGTGCTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 480  
 Qy 524 CTATCTGGGGGATTTATTTGGGGGGTGGCGGCTGCGCTCTGCGCTTTCTTTGAGTGTG 583  
 Db 481 CTATCTGGGGGATTTATTTGGGGGGTGGCGGCTGCGCTCTGCGCTTTCTTTGAGTGTG 540  
 Qy 584 CCGCAACGCGTCCCGCGCGCGGACCAAGAAATTTGATTTGGACATGATTTGGCCAC 643  
 Db 541 CCGCAACGCGTCCCGCGCGCGGACCAAGAAATTTGATTTGGACATGATTTGGCCAC 600  
 Qy 644 ATTCTTGAGAGATCTGTGGGATGTCTTTTGTATCTTTGAACTTTGGTGGCAAGA 703  
 Db 601 ATTCTTGAGAGATCTGTGGGATGTCTTTTGTATCTTTGAACTTTGGTGGCAAGA 660  
 Qy 704 CTGGTCAATTGTGATCACTTACTCCAAATTTTACAGATCACAAGGATCAAGAGAGG 763  
 Db 661 CTGGTCAATTGTGATCACTTACTCCAAATTTTACAGATCACAAGGATCAAGAGAGG 720  
 Qy 764 CTACAGGTAAGCTGGCTTACTCGAGAGCCACCAAGATCCGCGTGTCCAGCAGACTTC 823  
 Db 721 CTACAGGTAAGCTGGCTTACTCGAGAGCCACCAAGATCCGCGTGTCCAGCAGACTTC 780  
 Qy 824 CGGCTCTTCGGACCCCTTCTCTCTCATGTGTCTTCTTTCATCATGTGGAGCCCATC 883  
 Db 781 CGGCTCTTCGGACCCCTTCTCTCTCATGTGTCTTCTTTCATCATGTGGAGCCCATC 840  
 Qy 884 ATCATCAACATCTCTCATCTGTATCAGAACTTCAAGCAAGACTGTGATCTGGCG 943  
 Db 841 ATCATCAACATCTCTCATCTGTATCAGAACTTCAAGCAAGACTGTGATCTGGCG 900  
 Qy 944 TCCTCTTTCTTGGGTGGTGGCTTCACTTTGCTTATTCAGCCCTTAACCCCATCTC 1003  
 Db 901 TCCTCTTTCTTGGGTGGTGGCTTCACTTTGCTTATTCAGCCCTTAACCCCATCTC 960  
 Qy 1004 TACAACATGACACTGTGAGGAATGATGAGAAATTTTTCCTGCTTGGTCCCA 1063  
 Db 961 TACAACATGACACTGTGAGGAATGATGAGAAATTTTTCCTGCTTGGTCCCA 1020  
 Qy 1064 GAAAGGAGGACATTTTACAGACATCTGTCAAAAGAAATGACTGTGATTTTCT 1123  
 Db 1021 GAAAGGAGGACATTTTACAGACATCTGTCAAAAGAAATGACTGTGATTTTCT 1080  
 Qy 1124 GGCTTA 1129  
 Db 1081 GGCTTA 1086  
 RESULT 9  
 ADB47641 ADB47641 standard; cDNA; 1086 BP.  
 XX AC ADB47641;  
 XX 04-DEC-2003 (first entry)  
 DE Human cDNA encoding GPCR, HGPBMY18.  
 XX Human; sex; gene; G protein-coupled receptor; GPCR; endocrine disorder;  
 KM pituitary disorder; growth hormone; prolactin; luteinizing hormone;  
 KM follicle-stimulating hormone; thyroid-stimulating hormone;  
 KM adrenocorticotropin; vasopressin; oxytocin; aberrant growth;  
 KM aberrant lactation; aberrant sexual characteristic development;  
 KM testosterone; oestrogen; aberrant water homeostasis; hypogonadism;  
 KM Addison's disease; hypothyroidism; Cushing's disease; acromegaly;  
 KM gigantism; lethargy; osteoporosis; aberrant calcium homeostasis;  
 KM aberrant potassium homeostasis; reproductive disorder;  
 KM developmental disorder; colon cancer; breast cancer; prostate cancer;  
 KM lung cancer.  
 XX

OS Homo sapiens.  
 FH Key Location/Qualifiers  
 FT CDS 1..1086  
 FT /\*tag= b  
 FT /product= "HGPBMY18"  
 FT /transl\_except= (pos:364, .372,aa:Gly-Val)  
 FT 1..1083  
 FT /\*tag= a  
 FT /note= "Claimed in claim 1"  
 FT 4..1083  
 FT /\*tag= c  
 FT /note= "Claimed in claim 1"  
 PN US2003129653-A1.  
 PD 10-JUL-2003.  
 XX 30-SEP-2002; 2002US-00262213.  
 PF 16-JAN-2001; 2001US-0261782P.  
 PR 27-JUL-2001; 2001US-0308540P.  
 PR 14-NOV-2001; 2001US-00992331.  
 XX (FEDE/) FEDER J N.  
 PA (MINT/) MINTIER G.  
 PA (RAMA/) RAMANATHAN C S.  
 PA (HAWK/) HAWKEN D R.  
 PI Feder JN, Mintier G, Ramanathan CS, Hawken DR;  
 XX WPI; 2003-678603/64.  
 DR P-PSDB; ADB47642.  
 XX  
 PT New human G-protein coupled receptor, HGPBMY18, useful for treating and  
 PT diagnosing disease such as cancer, hypothyroidism, Cushing's disease and  
 PT osteoporosis.  
 XX  
 PS Claim 1; Fig 1; 71pp; English.  
 XX  
 CC The invention relate to an isolated human G protein-coupled receptor  
 CC (GPCR), HGPBMY18, polynucleotide encoding a novel human GPCR HGPBMY18.  
 CC Also included are expression vectors, host cells, a fusion protein  
 CC comprising HGPBMY18 and an Fc portion of a human immunoglobulin protein,  
 CC an anti-HGPBMY18 antibody its antigenic epitope, screening a library of  
 CC molecules or compounds with a polynucleotide to identify at least one  
 CC molecule or compound which specifically binds to the polynucleotide  
 CC sequence and screening for candidate compounds capable of modulating  
 CC activity of a G-protein coupled receptor-encoding polypeptide. HGPBMY18  
 CC or its (ant)agonist (small molecule, peptide, and antisense molecule) is  
 CC useful for treating a disease, disorder, or condition related to the  
 CC endocrine, gastrointestinal, reproductive, pulmonary, or neural system.  
 CC Diseases include endocrine disorders, disorders of the pituitary,  
 CC aberrant growth hormone synthesis and/or secretion, aberrant prolactin  
 CC synthesis and/or secretion, aberrant luteinizing hormone synthesis and/or  
 CC secretion, aberrant follicle-stimulating hormone synthesis and/or  
 CC secretion, aberrant thyroid-stimulating hormone synthesis and/or secretion,  
 CC aberrant vasopressin secretion, aberrant oxytocin secretion, aberrant  
 CC growth, aberrant lactation, aberrant sexual characteristic development,  
 CC aberrant testosterone synthesis and/or secretion, aberrant oestrogen  
 CC synthesis and/or secretion, aberrant water homeostasis, hypogonadism,  
 CC Addison's disease, hypothyroidism, Cushing's disease, acromegaly,  
 CC gigantism, lethargy, osteoporosis, aberrant calcium homeostasis, aberrant  
 CC potassium homeostasis, reproductive disorders, developmental disorders,  
 CC colon cancer, related proliferative condition of the colon, breast  
 CC cancer, related proliferative condition of the breast, prostate cancer,  
 CC related proliferative condition of the prostate, lung cancer, and related  
 CC proliferative condition of the lung. In addition determining the presence  
 CC or amount of expression of HGPBMY18 is useful for diagnosing a  
 CC (susceptibility to a) pathological condition such as colon cancer,  
 CC related proliferative condition of the colon, breast cancer, related  
 CC proliferative condition of the breast, prostate cancer, related





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QY 44 ATGTCCCTGAATGCGCGCGGAGCGGCGCGCCCTTGGCGAGCCTGAGCAAGCC 103
DB 1 ATGTCCCTGAATGCGCGCGGAGCGGCGCGCCCTTGGCGAGCCTGAGCAAGCC 60
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DB 61 AACCGGACCCGCTTTCCTTCTTCCGAGCTCAAGGGGCAACAACCGGCTGGTGGCC 120
QY 164 GCGGTGGAGCAACCGGTGCTGCTCATCTTTGCAAGTGTGCTGGGCAACGTGTG 223
DB 121 GCGGTGGAGCAACCGGTGCTGCTCATCTTTGCAAGTGTGCTGGGCAACGTGTG 180
QY 224 GCCCTGTGTGTGGTGGCGCGCAAGCAAGCGCGCGCGAGCTGCTGCTGTAATCAAC 283
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QY 284 CTCTTGTGGCGGACCTGCTTCTTCAATGAGCTATCCCTTGGTGTGGCCGTGG 343
DB 241 CTCTTGTGGCGGACCTGCTTCTTCAATGAGCTATCCCTTGGTGTGGCCGTGG 300
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QY 404 AGCGGAGCGCTCAACATCTCAAGCTGGCGCGCTGAGCTGAGCGCATGCTGTGATC 463
DB 361 AGCGGAGCGCTCAACATCTCAAGCTGGCGCGCTGAGCTGAGCGCATGCTGTGATC 420
QY 464 GTGACCTGCAAGCGCGCGGTGCTGGGCGCGCGCGCGCGAGTGTGCTGGCG 523
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QY 524 CTGATCTGGGGGCTATTGCGGGGTGCGCGCTGCTGCTGCGCTCTTTCGAGTGTG 583
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QY 584 CCGCAACGCGCTCCCGCGCGCGAGCAAGAAATTTGATTCAGATGATTTGGCCACC 643
DB 541 CCGCAACGCGCTCCCGCGCGCGAGCAAGAAATTTGATTCAGATGATTTGGCCACC 600
QY 644 ATTCTGTGAGAGATCTGTGGGATGTCTTTTGTGTAATTTGAACTTCTTGTGGCAGA 703
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QY 704 CTGTGATTTGATCACTTACTCCAAATTTTACAGATCAAGAGATCAAGAGAGAG 763
DB 661 CTGTGATTTGATCACTTACTCCAAATTTTACAGATCAAGAGATCAAGAGAGAG 720
QY 764 CTCACGGTAAGCTGGCTACTCGAGAGCCACAGATCCGCGTCCAGCAGACTTC 823
DB 721 CTCACGGTAAGCTGGCTACTCGAGAGCCACAGATCCGCGTCCAGCAGACTTC 780
QY 824 CGGCTTTCGCAACCTTCTCTCTCATGCTCTCTTTCATCATGTGAGCCCATC 883
DB 781 CGGCTTTCGCAACCTTCTCTCTCATGCTCTCTTTCATCATGTGAGCCCATC 840
QY 884 ATATACCAATCCCTCCATCCGATCCAGAACTTCAAGAGAGCTGTGATCTGGCCG 943
DB 841 ATATACCAATCCCTCCATCCGATCCAGAACTTCAAGAGAGCTGTGATCTGGCCG 900
QY 944 TCCTCTTCTTGGGTGGTGGCTTCAATTTGCTAATTCAGCCCTAAACCCCATCTC 1003
DB 901 TCCTCTTCTTGGGTGGTGGCTTCAATTTGCTAATTCAGCCCTAAACCCCATCTC 960
QY 1004 TACAACATGACACTGTGCAAGATGAGTGAAGAAATTTTGTGCTTGTGTTCCA 1063
DB 961 TACAACATGACACTGTGCAAGATGAGTGAAGAAATTTTGTGCTTGTGTTCCA 1020
QY 1064 GAAAGGAGAGCATTTTAAAGAGACATCTGTCAAAAAGAAATGACTGTGATTAATTTCT 1123
DB 1021 GAAAGGAGAGCATTTTAAAGAGACATCTGTCAAAAAGAAATGACTGTGATTAATTTCT 1080
QY 1124 GGCTAA 1129

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DB 1081 GGCTAA 1086
RESULT 11
ABT04869
ID ABT04869 standard; cDNA; 1086 BP.
XX
AC ABT04869;
XX
DE 11-OCT-2002 (first entry)
XX
DE Human G protein coupled receptor hRUP31 coding sequence.
XX
XX Human; G-protein coupled receptor; GPCR; hRUP28; hRUP29; hRUP30; hRUP31;
XX hRUP32; hRUP33; hRUP34; hRUP35; hRUP36; hRUP37; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200242461-A2.
XX
PD 30-MAY-2002.
XX
XX
PF 26-NOV-2001; 2001MO-US044386.
XX
PR 27-NOV-2000; 2000US-0253404P.
PR 12-DEC-2000; 2000US-0255366P.
PR 20-FEB-2001; 2001US-0270266P.
PR 20-FEB-2001; 2001US-0270286P.
PR 06-APR-2001; 2001US-0282032P.
PR 06-APR-2001; 2001US-0282358P.
PR 06-APR-2001; 2001US-0282358P.
PR 06-APR-2001; 2001US-0282358P.
PR 14-MAY-2001; 2001US-0290917P.
PR 31-JUL-2001; 2001US-0309208P.
XX
XX (AREN-) ARENA PHARM INC.
XX
PI Chen R, Chu ZL, Dang HT, Lowitz KP, Pride C;
XX
XX WPI; 2002-566565/60.
XX
DR P-PSDB; ABJ04071.
XX
PT Novel endogenous and non-endogenous versions of G protein-coupled
PT receptor useful for identification of candidate compounds as receptor
PT agonists or antagonists for use as therapeutic agents.
XX
PS Claim 15; Page 61; 84pp; English.
XX
XX The present invention provides the protein and coding sequences of
XX several human G-protein coupled receptors (GPCRs). These can be used in
XX the identification of candidate compounds as receptor agonists or inverse
XX agonists having applicability as therapeutic agents. The present sequence
XX is a GPCR coding sequence of the invention
XX
SQ Sequence 1086 BP; 185 A; 346 C; 295 G; 260 T; 0 U; 0 Other;
Query Match 53.1%; Score 926; DB 6; Length 1086;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1076; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 51 CTGAATCGCGGCGGAGCGGCGGAGCGGCGCTTGGCGAGCTGAGCAAGCAACCGCA 110
DB 8 CTGAATCGCGGCGGCGGAGCGGCGGAGCGGCGCTTGGCGAGCTGAGCAAGCAACCGCA 67
QY 111 CCGGCTTTCCTTCTTCTCCAGCTCAAGGGGCAACAACCGGCTGGTGGCGCGGTGG 170
DB 68 CCGGCTTTCCTTCTTCTCCAGCTCAAGGGGCAACAACCGGCTGGTGGCGCGGTGG 127
QY 171 AGACAAACGCTGCTGCTCATCTTTGCAATGTGCGCTGGGCAAGTGTGCGCCCTGG 230
DB 128 AGACAAACGCTGCTGCTCATCTTTGCAATGTGCTGGGCAAGTGTGCGCCCTGG 187

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Qy 1 TCGGACATAATTCTAAGACCGCTGCGGGCCGCCAGGCGCGGGAAATGTCCTTGAATGCGC 60
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Db 61 GCGGAGCAGCGGAGCAGCGGCTTTCGCGAGCCTGAGACCAAGCCAGCCGCTTTCC 120
Qy 121 CTTTCTTCCGAGCTCAAGGAGCGACACCGGCTGCTGCGCGGGTGAAGACACCT 180
Db 121 CTTTCTTCCGAGCTCAAGGAGCGACACCGGCTGCTGCGCGGGTGAAGACACCT 180
Qy 181 GCTGAGTCTATCTTTGACAGTGTGCTGCTGAGGCAAGTGTGCGCCCTGGTGTGAGG 240
Db 181 GCTGAGTCTATCTTTGACAGTGTGCTGCTGAGGCAAGTGTGCGCCCTGGTGTGAGG 240
Qy 241 GCGCGACAGACGCGCGCGCGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Db 241 GCGCGACAGACGCGCGCGCGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Qy 301 GCTTTCATAGCGCTATCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
Db 301 GCTTTCATAGCGCTATCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
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Db 361 GGGGCGCGGTTGCCGACCGCTCTCTACGTGATGACCTGAGCGGCGAGCGTCAACAT 420
Qy 421 CTTACACCTGAGCGCGGTCAGCCTGAGCGAGCTGATGATCTGTGACCTTGACCTGAGCGCG 480
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Db 481 CTTACACCTGAGCGCGGTCAGCCTGAGCGAGCTGATGATCTGTGACCTTGAGCGCG 480
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Qy 601 GCGCGACAGGAAATTTGATGATGACATGATTTGCGGCAACATTCCTGAGAGATCTC 660
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Db 661 GTGGAGATGCTCTTTTGTGATCTTTGAACCTTTGGTGCAGAGATGCTGATTTGATGAG 720
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Db 961 GGTGGCTTTCATCATTTGCTAATTCAGCCCTAAACCCCATCTCTTCAACATGACATGTG 1020
Qy 1021 CAGGATGATGAGGAAATTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
Db 1021 CAGGATGATGAGGAAATTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080

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Qy 1081 AACGACACATCTGTCCAAAGAAATGACTTGTGATTAATTTCTGCTAATTTTCTTAT 1140
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Db 1201 ACCCTCATGAGTCAACCTGCTTTTAAAGAAATGAACTTATGCAATATGACATCCAGC 1260
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Qy 1321 GTTGGCCAGGTGAGTGTTCATGCTCTGTAATCCAGCACTTTTGGAGGCTGAGTGGGT 1380
Db 1321 GTTGGCCAGGTGAGTGTTCATGCTCTGTAATCCAGCACTTTTGGAGGCTGAGTGGGT 1380
Qy 1381 GGAATCACTGAGGTGAGAGTTCAGAGCAACCTGACCAACATGATGAGACCCCGTCTC 1440
Db 1381 GGAATCACTGAGGTGAGAGTTCAGAGCAACCTGACCAACATGATGAGACCCCGTCTC 1440
Qy 1441 TACTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1500
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Qy 1561 AGATGCGCATTTGCACTCCACAGGAGCAAGAGTGAATCTCATCTTTAAAAAAA 1620
Db 1561 AGATGCGCATTTGCACTCCACAGGAGCAAGAGTGAATCTCATCTTTAAAAAAA 1620
Qy 1621 AAAAAA 1627
Db 1621 AAAAAA 1627

RESULT 13
ABA21432
ID ABA21432 standard; DNA; 746 BP.
XX
AC ABA21432:
XX
DT 23-JAN-2002 (first entry)
XX
DE Human nervous system related polynucleotide SEQ ID NO 13763.
XX
KW Human; nootropic; neuroprotective; cytoskeletal; dermatological; vinorelbine;
KW immunosuppressive; anti-infective; anti-inflamatory; anti-HIV; antibacterial; vulnerary;
KW antiparkinsonian; antispasmodic; antianemic; antidiabetic; cancer;
KW antileukemic; hepatotropic; cerebroprotective; antiinflammatory;
KW antifungal; antidiabetic; antileukemic; antitumor; anticomvulsant; antifungal;
KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;
KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.
XX
OS Homo sapiens.
XX
MO200159063-A2.
XX
PD 16-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001334.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
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PR 18-APR-2000; 2000US-0198123P.  
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PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
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PR 01-DEC-2000; 2000US-0251160P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
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PR 08-DEC-2000; 2000US-0251909P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
  
(HUMA-) HUMAN GENOME SCI INC.  
PR Rosen CA, Barash SC, Ruben SM,  
PR WPI, 2001-541565/60.  
PR  
PR Nucleic acids encoding 3224 human nervous system antigen polypeptides,  
PR useful for preventing, diagnosing and/or treating nervous system cancers  
PR and metastases.  
PR  
PR Disclosure; SEQ ID NO 13763; 1701pp + Sequence Listing; English.  
PR  
PR The invention relates to novel genes (ABA11004-ABA21534) and proteins  
PR (ABA14678-ABA18001) useful for preventing, treating or ameliorating  
PR medical conditions e.g. by protein or gene therapy. The genes are

isolated from a range of human tissues disclosed in the specification.  
 CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in  
 CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and  
 CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,  
 CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune  
 CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic  
 CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,  
 CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)  
 CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing  
 CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)  
 CC infectious diseases such as viral, bacterial, fungal and parasitic  
 CC infections. Note: The sequence data for this patent did not form part of  
 CC the printed specification, but was obtained in electronic format directly  
 CC from WIPO at [http://wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences)

Sequence 746 BP; 224 A; 149 C; 164 G; 209 T; 0 U; 0 Other;

Query Match 42.8%; Score 746; DB 5; Length 746;

Best Local Similarity 100.0%; Pred. No. 2.4e-252;

Matches 746; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 TGTCTAATTCAGCCCTTAACCCCATCTCTCAACATATGACATGTCGCGAATAGTGGAA 60
QY 1036 GAAATATTTTGTCTGCTTGTGTTCCGAGAAAGGAGCCATTTTAACAGACATCTGT 1095
DB 61 GAAATATTTTGTCTGCTTGTGTTCCGAGAAAGGAGCCATTTTAACAGACATCTGT 120
QY 1096 CAAAGAAATGACTGTGATTAATTTCTGCTAATTTTCTTTATAGCCGATTTCTCAC 1155
DB 121 CAAAGAAATGACTGTGATTAATTTCTGCTAATTTTCTTTATAGCCGATTTCTCAC 180
QY 1156 ACCTGGGAGCTGTGGATGCTTTTAAACAGAGTTCAATTTCCAGTACCTCCCAACAGTGC 1215
DB 181 ACCTGGGAGCTGTGGATGCTTTTAAACAGAGTTCAATTTCCAGTACCTCCCAACAGTGC 240
QY 1216 ACCCTGCTTTAAGAAATGAACCTATGCAATATAGATCCACAGCGTGGTAATTAAG 1275
DB 241 ACCCTGCTTTAAGAAATGAACCTATGCAATATAGATCCACAGCGTGGTAATTAAG 300
QY 1276 GGTGATCACCAGATTTTATATATTTTCCCTTTAATAAAGATTTGTTGGCAGGTCAG 1335
DB 301 GGTGATCACCAGATTTTATATATTTTCCCTTTAATAAAGATTTGTTGGCAGGTCAG 360
QY 1336 TGGTTCATGCTGTATATCCCAAGAGTTTGGAGGCTGAGTGGGTGATCACTGAGGTC 1395
DB 361 TGGTTCATGCTGTATATCCCAAGAGTTTGGAGGCTGAGTGGGTGATCACTGAGGTC 420
QY 1396 AGGAGTTGAGAACCACTGACCAACATGAGAGCCCGCTCTCTAATAAATAAATAA 1455
DB 421 AGGAGTTGAGAACCACTGACCAACATGAGAGCCCGCTCTCTAATAAATAAATAA 480
QY 1456 AAAAAATTAAGCTGGAGTGTGTGTGGCACTGTATCTTCTAGTCTTGGAGGCTGAG 1515
DB 481 AAAAAATTAAGCTGGAGTGTGTGTGGCACTGTATCTTCTAGTCTTGGAGGCTGAG 540
QY 1516 CAGAGAAATCTTTGAACCTTGGAGGAGAGTGTGAGTGCAGGAATCTGTGCATTGC 1575
DB 541 CAGAGAAATCTTTGAACCTTGGAGGAGAGTGTGAGTGCAGGAATCTGTGCATTGC 600
QY 1576 ACTCCACACGAGGAGCAAGAGTGAATCTCATCTTAAAAAATAAATAAATAAATTTGT 1635
DB 601 ACTCCACACGAGGAGCAAGAGTGAATCTCATCTTAAAAAATAAATAAATAAATTTGT 660
QY 1636 TATGGTTCCTTTTAAATGTGAATCTTTTAAATGTGTGTGTATATATGATCAATTTAATA 1695
DB 661 TATGGTTCCTTTTAAATGTGAATCTTTTAAATGTGTGTGTATATATGATCAATTTAATA 720
QY 1696 AATATTTATTTATGATGTTGAGCA 1721
DB 721 AATATTTATTTATGATGTTGAGCA 746

```

# RESULT 14

ACA61000 standard; DNA; 632 BP.

ACA61000;

04-JUL-2003 (first entry)

Novel human G protein coupled receptor HGRBM18 3'UTR.

Human; G protein coupled receptor; GPCR; HGRBM18; cytosolic;  
 KW neurotrophic; neuroprotective; antiparkinsonian; antidiabetic;  
 KW antidepressant; hypotensive; tranquilizer; nephrotoxic;  
 KW cell growth disorder; neurological condition; pituitary gland disorder;  
 KW colon disorder; breast disorder; lung disorder; prostate disorder;  
 KW Alzheimer's disease; Parkinson's disease; diabetes; dwarfism;  
 KW colour blindness; retinal pigmentosa; asthma; depression; schizophrenia;  
 KW sleeplessness; hypertension; anxiety; stress; renal failure; 3'UTR;  
 KW untranslated region; ds.

Homo sapiens.

US2003022186-A1.

30-JAN-2003.

14-NOV-2001; 2001US-00992331.

14-NOV-2000; 2000US-0248483P.

16-JUN-2001; 2001US-0261782P.

27-JUL-2001; 2001US-0308540P.

(FEDER/) FEDER J N.

(MINT/) MINTIER G.

(RAMA/) RAMANATHAN C S.

Feder JN, Mintier G, Ramanathan CS;

WPI; 2003-416985/39.

New isolated human GPCR, HGRBM18, polynucleotide and polypeptide,

useful for treating, diagnosing and preventing disorders such as cancer,

neurological conditions, and diseases of the pituitary gland, colon,

breast and lungs.

Disclosure; Fig 4; 66pp; English.

The invention describes a new isolated polynucleotide encoding a human G-

protein coupled receptor (GPCR) or its functional fragment. The methods

and compositions of the present invention are useful for treating,

diagnosing, preventing and screening disorders associated with aberrant

cell growth, neurological conditions, and diseases related to the

pituitary gland, colon, breast, lungs and prostate. These disorders

include Alzheimer's, Parkinson, diabetes, dwarfism, colour blindness,

retinal pigmentosa, asthma, depression, schizophrenia, sleeplessness,

hypertension, anxiety, stress and renal failure. This sequence represents

novel human G protein coupled receptor HGRBM18 3' untranslated region

(UTR)

Sequence 632 BP; 219 A; 113 C; 134 G; 166 T; 0 U; 0 Other;

Query Match 33.6%; Score 586; DB 7; Length 632;

Best Local Similarity 100.0%; Pred. No. 3.5e-196;

Matches 586; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1130 TTTTCTTTTAAACCGAGTTTCTACACCTGGGAGCTGTGGATGCTTTTAAACAGAGT 1189
DB 1 TTTTCTTTTAAACCGAGTTTCTACACCTGGGAGCTGTGGATGCTTTTAAACAGAGT 60
QY 1190 TCATTTCCAGTACCTTCATCAGTGCACCTGCTTTTAAAGAAATGAACCTATGCAATAG 1249
DB 61 TCATTTCCAGTACCTTCATCAGTGCACCTGCTTTTAAAGAAATGAACCTATGCAATAG 120

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QY 1250 ACATCCACAGCGTGGTAATTAAGGGGTGATCAACAAGTTTCAATATATTTCCCTTAA 1309
DB 121 ACATCCACAGCGTGGTAATTAAGGGGTGATCAACAAGTTTCAATATATTTCCCTTAA 180
QY 1310 TAAAGGATTTGTTGGCAGGTGATGTTCAATGCTGTAATCCCGAGATTGGAGG 1369
DB 181 TAAAGGATTTGTTGGCAGGTGATGTTCAATGCTGTAATCCCGAGATTGGAGG 240
QY 1370 CTGAGGTGGGTGATCACTGAGGTGAGGATTCGAGACCACTGACCAATGTTGAG 1429
DB 241 CTGAGGTGGGTGATCACTGAGGTGAGGATTCGAGACCACTGACCAATGTTGAG 300
QY 1430 ACCCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1489
DB 301 ACCCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 360
QY 1490 AATCTAGTCTCTGAGGCTGAGGATCCAGAGAACTCTTGAACCTGGAGGAGGAGTT 1549
DB 361 AATCTAGTCTCTGAGGCTGAGGATCCAGAGAACTCTTGAACCTGGAGGAGGAGTT 420
QY 1550 GCAGTACGCGAGATCGTGCATTCGACCTCAACAGGAGCAAGAGTAACTCCATC 1609
DB 421 GCAGTACGCGAGATCGTGCATTCGACCTCAACAGGAGCAAGAGTAACTCCATC 480
QY 1610 TTTAAAAAAGATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1669
DB 481 TTTAAAAAAGATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 540
QY 1670 TGTGTTGTAATGATCAAAATTTAATAATTTAATTTAATGACGTT 1715
DB 541 TGTGTTGTAATGATCAAAATTTAATAATTTAATTTAATGACGTT 586

```

## RESULT 15

ADB47644  
ADB47644 standard; cDNA; 632 BP.

ADB47644;

04-DEC-2003 (first entry)

Human cDNA encoding GPCR, HGRPMY18, 3' UTR.

Human; ss; gene; G protein-coupled receptor; GPCR; endocrine disorder;  
pituitary disorder; growth hormone; prolactin; luteinizing hormone;  
follicle-stimulating hormone; thyroid-stimulating hormone;  
adrenocorticotropin; vasopressin; oxytocin; aberrant growth;  
aberrant lactation; aberrant sexual characteristic development;  
testosterone; oestrogen; aberrant water homeostasis; hypogonadism;  
Addison's disease; hypothyroidism; Cushing's disease; agromegaly;  
gigantism; lethargy; osteoporosis; aberrant calcium homeostasis;  
aberrant potassium homeostasis; reproductive disorder;  
developmental disorder; colon cancer; breast cancer; prostate cancer;  
lung cancer; untranslated region.

Homo sapiens.

US2003129653-A1.

10-JUL-2003.

30-SEP-2002; 2002US-00262313.

16-JAN-2001; 2001US-0261782P.

27-JUL-2001; 2001US-0308540P.

14-NOV-2001; 2001US-00992311.

(FEDE/) FEDER J N.  
(MINT/) MINTIER G.  
(RAMA/) RAMANATHAN C S.  
(HAWK/) HAWKEN D R.

XX

PI Feder JN, Mintier G, Ramanathan CS, Hawken DR;  
XX WPI; 2003-678603/64.  
XX  
XX New human G-protein coupled receptor, HGRPMY18, useful for treating and  
PT diagnosing disease such as cancer, hypothyroidism, Cushing's disease and  
PT osteoporosis.  
XX  
XX  
XX Disclosure; Fig 4; 71pp; English.

The invention relate to an isolated human G protein-coupled receptor  
(GPCR), HGRPMY18, polynucleotide encoding a novel human GPCR HGRPMY18.  
CC Also included are expression vectors, host cells, a fusion protein  
CC comprising HGRPMY18 and an Fc portion of a human immunoglobulin protein,  
CC an anti-HGRPMY18 antibody, its antigenic epitope, screening a library of  
CC molecules or compounds with a polynucleotide to identify at least one  
CC molecule or compound which specifically binds to the polynucleotide  
CC sequence and screening for candidate compounds capable of modulating  
CC activity of a G-protein coupled receptor encoding polypeptide, HGRPMY18  
CC or its (ant)agonist (small molecule, peptide, and antisense molecule) is  
CC useful for treating a disease, disorder, or condition related to the  
CC endocrine, gastrointestinal, reproductive, pulmonary, or neural system.  
CC Diseases include endocrine disorders, disorders of the pituitary,  
CC aberrant growth hormone synthesis and/or secretion, aberrant prolactin  
CC synthesis and/or secretion, aberrant luteinizing hormone synthesis and/or  
CC secretion, aberrant follicle-stimulating hormone synthesis and/or  
CC secretion, aberrant thyroid-stimulating hormone synthesis and/or  
CC secretion, aberrant adrenocorticotropin synthesis and/or secretion,  
CC aberrant vasopressin secretion, aberrant oxytocin secretion, aberrant  
CC growth, aberrant lactation, aberrant sexual characteristic development,  
CC aberrant testosterone synthesis and/or secretion, aberrant oestrogen  
CC synthesis and/or secretion, aberrant water homeostasis, hypogonadism,  
CC Addison's disease, hypothyroidism, Cushing's disease, agromegaly,  
CC gigantism, lethargy, osteoporosis, aberrant calcium homeostasis, aberrant  
CC potassium homeostasis, reproductive disorders, developmental disorders,  
CC colon cancer, related proliferative condition of the colon, breast  
CC cancer, related proliferative condition of the breast, prostate cancer,  
CC related proliferative condition of the prostate, lung cancer, and related  
CC proliferative condition of the lung. In addition determining a  
CC or amount of expression of HGRPMY18 is useful for diagnosing a  
CC (susceptibility to a) pathological condition such as colon cancer,  
CC related proliferative condition of the colon, breast cancer, related  
CC proliferative condition of the breast, prostate cancer, related  
CC proliferative condition of the prostate, lung cancer, and related  
CC proliferative condition of the lung. The present sequence represents the  
CC 5' or 3' UTR of the cDNA encoding HGRPMY18.

XX Sequence 632 BP; 219 A; 113 C; 134 G; 166 T; 0 U; 0 Other;

Query Match 33.6%; Score 586; DB 8; Length 632;

Best Local Similarity 100.0%; Pred. No. 3.5e-196;

Matches 586; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1130 TTTTCTTTATAGCCAGTTCTCACACCTGGAGCTGGGATGCTTTAAGCAGAGT 1189
DB 1 TTTTCTTTATAGCCAGTTCTCACACCTGGAGCTGGGATGCTTTAAGCAGAGT 60
QY 1190 TCATTTCCAGTACCTCTCATCATGACACCTGCTTTAAGAAATGAACCTATGCAATAG 1249
DB 61 TCATTTCCAGTACCTCTCATCATGACACCTGCTTTAAGAAATGAACCTATGCAATAG 120
QY 1250 ACATCCACAGCGTGGTAATTAAGGGGTGATCAACAAGTTTCAATATATTTCCCTTAA 1309
DB 121 ACATCCACAGCGTGGTAATTAAGGGGTGATCAACAAGTTTCAATATATTTCCCTTAA 180
QY 1310 TAAAGGATTTGTTGGCAGGTGATGTTCAATGCTGTAATCCCGAGATTGGAGG 1369
DB 181 TAAAGGATTTGTTGGCAGGTGATGTTCAATGCTGTAATCCCGAGATTGGAGG 240
QY 1370 CTGAGGTGGGTGATCACTGAGGTGAGGATTCGAGACCACTGACCAATGTTGAG 1429
DB 241 CTGAGGTGGGTGATCACTGAGGTGAGGATTCGAGACCACTGACCAATGTTGAG 300

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QY	361	GGGCCCCGTTGCTGCGCACCTGCTCTTTCTTACGTATGACCTTGAGCGGCAGCTCACCAT	420
Db	361	GGGCCCCCTGTGCTCGCACCTGCTCTTTCTTACGTATGACCTTGAGCGGCAGCTCACCAT	420
QY	421	CCTCAGCTGGCCGGCGGTCAAGCTTGAGACGATGGATGTGCATGTGCGACCTGACGCGG	480
Db	421	CCTCAGCTGGCCGGCGGTCAAGCTTGAGACGATGGATGTGCATGTGCGACCTGACGCGG	480
QY	481	CGTGCGGGGGTCTCTGGGCGGCGGGCGGCGAGTGTGCTGGCGCTCATCTGCGGCTATTTC	540
Db	481	CGTGCGGGGGTCTCTGGGCGGCGGGCGGCGAGTGTGCTGGCGCTCATCTGCGGCTATTTC	540
QY	541	GGCGGTGCCCGCTCTGCGCTCTCTGGGTCTTCTTGGAATGCTGCTCCGGCAACGGTCCCCGG	600
Db	541	GGCGGTGCCCGCTCTGCGCTCTCTGGGTCTTCTTGGAATGCTGCTCCGGCAACGGTCCCCGG	600
QY	601	CGCCGACGAGGAAATTTGATTTGACACTGATTTGGCCCACTTCTCGAGAGATCTC	660
Db	601	CGCCGACGAGGAAATTTGATTTGACACTGATTTGGCCCACTTCTCGAGAGATCTC	660
QY	661	GTGGGATGTCTTTTGTTCCTTTGAACTTCTGTGTCAGAGACTGTCAATTTGATCAG	720
Db	661	GTGGGATGTCTTTTGTTCCTTTGAACTTCTGTGTCAGAGACTGTCAATTTGATCAG	720
QY	721	TTACTCCAAATTTTACAGATCACAAAGCATCAAGAAAGGCTCACAGGTAAAGCTTGGC	780
Db	721	TTACTCCAAATTTTACAGATCACAAAGCATCAAGAAAGGCTCACAGGTAAAGCTTGGC	780
QY	781	CTACTCGAGAGCCACAGATCCGGGTGCCAGAGACCTTCCGGCTCTTCCGACCT	840
Db	781	CTACTCGAGAGCCACAGATCCGGGTGCCAGAGACCTTCCGGCTCTTCCGACCT	840
QY	841	CTTCTCTCTCATGTGTCTCTCTTTCATCATGTGAGGCCCATCATCATCAACATCTTCT	900
Db	841	CTTCTCTCTCATGTGTCTCTCTTTCATCATGTGAGGCCCATCATCATCAACATCTTCT	900
QY	901	CATCTGATCCAGAACTTCAAGCAAGACTGTGATCTGGCCGCTCTCTTCTTGGGT	960
Db	901	CATCTGATCCAGAACTTCAAGCAAGACTGTGATCTGGCCGCTCTCTTCTTGGGT	960
QY	961	GSTGSCCTTCACATTTGCTAATTCAGCCCTAAACCCCATTCCTTACCAATGACACTGTG	1020
Db	961	GSTGSCCTTCACATTTGCTAATTCAGCCCTAAACCCCATTCCTTACCAATGACACTGTG	1020
QY	1021	CAGGATGATGGAAGAAATTTTGTGCTTCTGTGTTTCCAGAAAAGGAGCCATTTT	1080
Db	1021	CAGGATGATGGAAGAAATTTTGTGCTTCTGTGTTTCCAGAAAAGGAGCCATTTT	1080
QY	1081	AACAGACACATCTGTCAAAAGAAATGACTTGTGATTAATTTCTGGCTAATTTTCTTAT	1140
Db	1081	AACAGACACATCTGTCAAAAGAAATGACTTGTGATTAATTTCTGGCTAATTTTCTTAT	1140
QY	1141	AGCGAGTTTCTCAACCTGGGAGACTGTGGATGCTTTTAAACAGATTCATTTCCAGT	1200
Db	1141	AGCGAGTTTCTCAACCTGGGAGACTGTGGATGCTTTTAAACAGATTCATTTCCAGT	1200
QY	1201	AACCTTCACATGTGACCCCTGCTTTAAGAAATGAACTATGCAATAGACATCCACAGC	1260
Db	1201	AACCTTCACATGTGACCCCTGCTTTAAGAAATGAACTATGCAATAGACATCCACAGC	1260
QY	1261	GTGCGTAATTAAGGGGTGATCAACAAAGTTTCAATATTTTCCCTTATTAAGAGATT	1320
Db	1261	GTGCGTAATTAAGGGGTGATCAACAAAGTTTCAATATTTTCCCTTATTAAGAGATT	1320
QY	1321	GTGGCCAGGTGCAATGTGTTCATGTCTTAAATCCAGACATTTGGAGGCTGAGGTGGGT	1380
Db	1321	GTGGCCAGGTGCAATGTGTTCATGTCTTAAATCCAGACATTTGGAGGCTGAGGTGGGT	1380
QY	1381	GGATACCTGAGGTGAGGAGTTGAGAGCAACCTGACCAACATGTGTGAGACCCCGCTTC	1440
Db	1381	GGATACCTGAGGTGAGGAGTTGAGAGCAACCTGACCAACATGTGTGAGACCCCGCTTC	1440
QY	1441	TACTTAATAATAAAAAAAAAATTTACTGAGAGTGTGTGGCACTGTAAATCTTAGTCA	1500

Db	1441	TACTTAATAATATAAAAAATAATTTAGCTGGAGAGTGGTGGGCACTGTATATCCTTACTTA	1500
QY	1501	CTTGGGAGGCTGAAACAAGAGAATCTCTTGAACCTGGAGGCAAGGCTTGCAGTGACCG	1560
Db	1501	CTTGGGAGGCTGAAACAAGAGAATCTCTTGAACCTGGAGGCAAGGCTTGCAGTGACCG	1560
QY	1551	AGATGTGCCCTTGCATCTCCCAACAAGGCGCAACAAGACTGAAACATCCATCTTAAAAA	1620
Db	1551	AGATGTGCCCTTGCATCTCCCAACAAGGCGCAACAAGACTGAAACATCTTAAAAA	1620
QY	1621	AAAAAAGATTTGTATAGGTTCCCTTTAAATGTGAACTTTTTAGTGTGTTGTATA	1680
Db	1621	AAAAAAGATTTGTATAGGTTCCCTTTAAATGTGAACTTTTTAGTGTGTTGTATA	1680
QY	1661	TGATCAATTTAATPAATATTTATTATTTAGCTTCAACAAAAA	1740
Db	1661	TGATCAATTTAATPAATATTTATTATTATTTAGCTTCAACAAAAA	1740
QY	1741	CGG 1743	
Db	1741	CGG 1743	

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RESULT 2
US-09-456-455A-2
; Sequence 2, Application US/09456455A
; Patent No. 6448005
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; APPLICANT: Tsai, Fong-Ying
; TITLE OF INVENTION: 1473 Receptor, A No. 6448005el G-Protein Coupled Receptor
; FILE REFERENCE: MN1-204CP3
; CURRENT FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: 09/107,761
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: 09/223,538
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1743
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-456-455A-2

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Query Match	100.0%;	Score 1743;	DB 4;	Length 1743;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1743;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	TCGGACTGATTCTAGAACCGCTGCGGGCCGCGACAGCCGGGAATGTCCTCTGAATGCG	60	
Db	1	TCGGACTGATTCTAGAACCGCTGCGGGCCGCGACAGCCGGGAATGTCCTCTGAATGCG	60	
Qy	61	GGGGGACGGGGGACAGCGCCCTTGCGAGCTTGAGCAAGCCACCGCAACCCGTTTCC	120	
Db	61	GGGGGACGGGGGACAGCGCCCTTGCGAGCTTGAGCAAGCCACCGCAACCCGTTTCC	120	
Qy	121	CTTCTTCCGACGTCAAGGGCGACCAACCGGCTGTGCTGGCCGCGGTGAGACAAACGT	180	
Db	121	CTTCTTCCGACGTCAAGGGCGACCAACCGGCTGTGCTGGCCGCGGTGAGACAAACGT	180	
Qy	181	GCTGTGTCTACTTTTGACGTGTGCTGTGGGCAACGTGTGCGCCCTGTGTGTGGC	240	
Db	181	GCTGTGTCTACTTTTGACGTGTGCTGTGGGCAACGTGTGCGCCCTGTGTGTGGC	240	
Qy	241	GGCGCGACGACGCGCGCGGAGTGGCTGTGTGTACTCAACTCTTTCTGCGGACCT	300	
Db	241	GGCGCGACGACGCGCGCGGAGTGGCTGTGTGTACTCAACTCTTTCTGCGGACCT	300	
Qy	301	GCTCTTCAACGCGTATCCTCTGTGTGTGGCGGTGGACTGAGCTGAGGCTTGAGCT	360	
Db	301	GCTCTTCAACGCGTATCCTCTGTGTGTGGCGGTGGACTGAGCTGAGGCTTGAGCT	360	



LOCATION: 99098  
OTHER INFORMATION: 5-130-257 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 99117  
OTHER INFORMATION: 5-130-276 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 103806  
OTHER INFORMATION: 5-131-395 : polymorphic base A or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 106940  
OTHER INFORMATION: 5-133-375 : polymorphic base insertion of A  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108106  
OTHER INFORMATION: 5-135-155 : polymorphic base insertion of A  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108149  
OTHER INFORMATION: 5-135-198 : polymorphic base insertion of GTTT  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108308  
OTHER INFORMATION: 5-135-357 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108471  
OTHER INFORMATION: 5-136-174 : polymorphic base C or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 134134  
OTHER INFORMATION: 5-140-120 : polymorphic base C or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 134374  
OTHER INFORMATION: 5-140-348 : polymorphic base insertion of A  
FEATURE:  
NAME/KEY: allele  
LOCATION: 146328  
OTHER INFORMATION: 5-143-84 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 146345  
OTHER INFORMATION: 5-143-101 : polymorphic base A or C  
FEATURE:  
NAME/KEY: allele  
LOCATION: 150329  
OTHER INFORMATION: 5-145-24 : polymorphic base A or G  
FEATURE:  
NAME/KEY: allele  
LOCATION: 160031  
OTHER INFORMATION: 5-148-352 : polymorphic base G or T  
FEATURE:  
NAME/KEY: allele  
LOCATION: 72771..72817  
OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID30  
FEATURE:  
NAME/KEY: allele  
LOCATION: 72771..72817  
OTHER INFORMATION: polymorphic fragment 5-124-273 SEQ ID51  
FEATURE:  
NAME/KEY: allele  
LOCATION: 88050..88096  
OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID31  
FEATURE:  
NAME/KEY: allele  
LOCATION: 88050..88096

OTHER INFORMATION: polymorphic fragment 5-127-261 SEQ ID52  
FEATURE:  
NAME/KEY: allele  
LOCATION: 90819..90865  
OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID49  
FEATURE:  
NAME/KEY: allele  
LOCATION: 90819..90865  
OTHER INFORMATION: complement polymorphic fragment 99-1437-325 SEQ ID70  
FEATURE:  
NAME/KEY: allele  
LOCATION: 93690..93736  
OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID32  
FEATURE:  
NAME/KEY: allele  
LOCATION: 93690..93736  
OTHER INFORMATION: polymorphic fragment 5-128-60 SEQ ID53  
FEATURE:  
NAME/KEY: allele  
LOCATION: 97099..97145  
OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID50  
FEATURE:  
NAME/KEY: allele  
LOCATION: 97099..97145  
OTHER INFORMATION: polymorphic fragment 99-1442-224 SEQ ID71  
FEATURE:  
NAME/KEY: allele  
LOCATION: 97130..97177  
OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID33  
FEATURE:  
NAME/KEY: allele  
LOCATION: 97130..97177  
OTHER INFORMATION: polymorphic fragment 5-129-144 SEQ ID54  
FEATURE:  
NAME/KEY: allele  
LOCATION: 99075..99121  
OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID34  
FEATURE:  
NAME/KEY: allele  
LOCATION: 99075..99121  
OTHER INFORMATION: polymorphic fragment 5-130-257 SEQ ID55  
FEATURE:  
NAME/KEY: allele  
LOCATION: 99094..99140  
OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID35  
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OTHER INFORMATION: polymorphic fragment 5-130-276 SEQ ID56  
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LOCATION: 103783..103828  
OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID36  
FEATURE:  
NAME/KEY: allele  
LOCATION: 103783..103828  
OTHER INFORMATION: polymorphic fragment 5-131-395 SEQ ID57  
FEATURE:  
NAME/KEY: allele  
LOCATION: 106918..106966  
OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID37  
FEATURE:  
NAME/KEY: allele  
LOCATION: 106918..106966  
OTHER INFORMATION: polymorphic fragment 5-133-375 SEQ ID58  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108084..108130  
OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID38  
FEATURE:  
NAME/KEY: allele  
LOCATION: 108084..108130  
OTHER INFORMATION: polymorphic fragment 5-135-155 SEQ ID59

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; FEATURE:
; NAME/KEY: allele
; LOCATION: 108127..108177
; OTHER INFORMATION: polymorphic fragment 5-135-198 SEQ ID39
; FEATURE:
; NAME/KEY: allele
; LOCATION: 108127..108177
; OTHER INFORMATION: polymorphic fragment 5-135-198 SEQ ID60
; FEATURE:

Query Match          3.3%; Score 58; DB 4; Length 162450;
Best Local Similarity 100.0%; Pred. No. 7.3e-14;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1527 CTTGAACCTGGAGGCGAGGCTTGACAGCCGAGATCGTCCATTGCACTCCACC 1584
DB 8387 CTTGAACCTGGAGGCGAGGCTTGACAGCCGAGATCGTCCATTGCACTCCACC 8330

RESULT 4
US-09-482-273-79
; Sequence 79, Application US/09482273
; Patent No. 6534631
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 71 Human Secreted Proteins
; FILE REFERENCE: P2030P1
; CURRENT APPLICATION NUMBER: US/09/482,273
; CURRENT FILING DATE: 2000-01-13
; EARLIER APPLICATION NUMBER: PCT/US99/15849
; EARLIER FILING DATE: 1999-07-14
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,922
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,956
; EARLIER FILING DATE: 1998-07-15
; NUMBER OF SEQ ID NOS: 267
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 2191
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1327)
; OTHER INFORMATION: n equals a,c,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1334)
; OTHER INFORMATION: n equals a,c,g, or c
US-09-482-273-79

Query Match          2.9%; Score 50; DB 4; Length 2191;
Best Local Similarity 100.0%; Pred. No. 1.5e-10;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1361 TTTGGAGGCTGAGGTGGTGATCACTGAGGTGAGAGTTGAGACCA 1410
DB 1929 TTTGGAGGCTGAGGTGGTGATCACTGAGGTGAGAGTTGAGACCA 1978

RESULT 5
US-09-564-805-28/c
; Sequence 28, Application US/09564805
; Patent No. 6333403
; GENERAL INFORMATION:
; APPLICANT: Tavtigian, Sean V.
; APPLICANT: Teng, David H.F.
; APPLICANT: Simard, Jacques
; APPLICANT: Rommens, Johanna M.
; APPLICANT: Myriad Genetics, Inc.
; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility
```

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; TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes
; FILE REFERENCE: 2318-258
; CURRENT APPLICATION NUMBER: US/09/564,805
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: US 60/107,468
; PRIOR FILING DATE: 1998-11-06
; PRIOR APPLICATION NUMBER: 09/434,382
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 2664
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (910)..(13104)
; OTHER INFORMATION: exon 1: 910-1154; exon 2: 1736-1786; exon 3:
; OTHER INFORMATION: 1925-1995; exon 4: 3025-3089; exon 5: 4361-4418;
; OTHER INFORMATION: exon 6: 5582-5650; exon 7: 7075-7194; exon 8:
; OTHER INFORMATION: 8186-8244; exon 9: 12878-12936; exon 10:
; NAME/KEY: misc feature
; LOCATION: (13756)..(22917)
; OTHER INFORMATION: exon 11: 13756-13868; exon 12: 15283-15378; exon
; OTHER INFORMATION: 13: 16278-16416; exon 14: 16498-16583; exon 15:
; OTHER INFORMATION: 18583-18701; exon 16: 20349-20445; exon 17:
; OTHER INFORMATION: 22172-22310; exon 18: 22879-22917
; NAME/KEY: misc feature
; LOCATION: (23045)..(26452)
; OTHER INFORMATION: exon 19: 23045-23154; exon 20: 23795-23895; exon
; OTHER INFORMATION: 21: 23973-24093; exon 22: 24354-24432; exon 23:
; OTHER INFORMATION: 25026-25170; exon 24: 25812-26036; polyadenylation
; OTHER INFORMATION: signal: 26447-26452
; NAME/KEY: variation
; LOCATION: (826)..(23879)
; OTHER INFORMATION: s at positions 826 and 23180 is G or C; Y at
; OTHER INFORMATION: positions 1914, 5568, 7165, 16431, 1857 and 20486
; OTHER INFORMATION: 18 C or T; n at position 13128 is C or GAT; r at
; OTHER INFORMATION: positions 22211 and 23879 is A or G.
US-09-564-805-28

Query Match          2.9%; Score 50; DB 4; Length 2664;
Best Local Similarity 100.0%; Pred. No. 1.1e-10;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1361 TTTGGAGGCTGAGGTGGTGATCACTGAGGTGAGAGTTGAGACCA 1410
DB 17609 TTTGGAGGCTGAGGTGGTGATCACTGAGGTGAGAGTTGAGACCA 17560

RESULT 6
US-09-820-924-3
; Sequence 3, Application US/09820924
; Patent No. 6555351
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE REFERENCE: CL001213
; CURRENT APPLICATION NUMBER: US/09/820,924
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 39982
; TYPE: DNA
; ORGANISM: Human
US-09-820-924-3

Query Match          2.9%; Score 50; DB 4; Length 39982;
Best Local Similarity 100.0%; Pred. No. 1.1e-10;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1361 TTGGGAGGCTGAGGTGGTGGATCACCTGAGTCCAGAGTTGGAGACCA 1410  
DB 22437 TTGGGAGGCTGAGGTGGTGGATCACCTGAGTCCAGAGTTCCAGACCA 22486

## RESULT 7

US-09-369-247-46  
; Sequence 46: Application US/09369247  
; Patent No. 6569992  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 44 Human Secreted Proteins  
; FILE REFERENCE: PZ024P1  
; CURRENT APPLICATION NUMBER: US/09/369,247  
; CURRENT FILING DATE: 1999-08-05  
; EARLIER APPLICATION NUMBER: 60/074,118  
; EARLIER FILING DATE: 1998-02-09  
; EARLIER APPLICATION NUMBER: 60/074,157  
; EARLIER FILING DATE: 1998-02-09  
; EARLIER APPLICATION NUMBER: 60/074,137  
; EARLIER FILING DATE: 1998-02-09  
; EARLIER APPLICATION NUMBER: 60/074,341  
; EARLIER FILING DATE: 1998-02-09  
; EARLIER APPLICATION NUMBER: 60/074,141  
; EARLIER FILING DATE: 1998-02-09  
; NUMBER OF SEQ ID NOS: 172  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 46  
; LENGTH: 2094  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-369-247-46

## Query Match

Best Local Similarity 100.0%; Score 49; DB 4; Length 2094;  
Pred. No. 3,7e-10;

Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1516 CAGGAGATCTCTGACCTGGAGGAGGAGGTTGCAGTGGCCGAGAT 1564  
DB 1975 CAGGAGATCTCTGACCTGGAGGAGGAGGTTGCAGTGGCCGAGAT 2023

## RESULT 8

US-09-621-976-14833  
; Sequence 14833: Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent .pm  
; SEQ ID NO 14833  
; LENGTH: 405  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-621-976-14833

## Query Match

Best Local Similarity 100.0%; Score 48; DB 4; Length 405;  
Pred. No. 1.1e-09;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1345 CCTGTAATCCAGCAGTTTGGAGAGCTGAGGTGGTGGATCACCTGAG 1392  
DB 191 CCTGTAATCCAGCAGTTTGGAGAGCTGAGGTGGTGGATCACCTGAG 228

## RESULT 9

US-09-621-976-15040  
; Sequence 15040: Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent .pm  
; SEQ ID NO 15040  
; LENGTH: 431  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-621-976-15040

## Query Match

Best Local Similarity 100.0%; Score 48; DB 4; Length 431;  
Pred. No. 1.1e-09;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1345 CCTGTAATCCAGCAGTTTGGAGAGCTGAGGTGGTGGATCACCTGAG 1392  
DB 191 CCTGTAATCCAGCAGTTTGGAGAGCTGAGGTGGTGGATCACCTGAG 238

## RESULT 10

US-09-435-739-42/c  
; Sequence 42: Application US/09435739  
; Patent No. 6664105  
; GENERAL INFORMATION:  
; APPLICANT: Pecker, Iris  
; APPLICANT: Vlodavsky, Israel  
; APPLICANT: Feinstein, Elena  
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY  
; FILE REFERENCE: 00/20454  
; CURRENT APPLICATION NUMBER: US/09/435,739  
; CURRENT FILING DATE: 2001-06-05  
; NUMBER OF SEQ ID NOS: 47  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 42  
; LENGTH: 44848  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-435-739-42

## Query Match

Best Local Similarity 100.0%; Score 48; DB 4; Length 44848;  
Pred. No. 6.5e-10;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1361 TTGGGAGGCTGAGGTGGTGGATCACCTGAGTCCAGAGTTGGAGAC 1408  
DB 19123 TTGGGAGGCTGAGGTGGTGGATCACCTGAGTCCAGAGTTGGAGAC 19076

## RESULT 11

US-09-497-855A-38/c  
; Sequence 38: Application US/09497855A  
; Patent No. 6605432  
; GENERAL INFORMATION:  
; APPLICANT: Huang, Tim  
; TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR DETECTING DNA METHYLATION  
; FILE REFERENCE: UMO1523  
; CURRENT APPLICATION NUMBER: US/09/497,855A  
; CURRENT FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/120,592  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: 60/118,760  
; PRIOR FILING DATE: 1999-02-05  
; NUMBER OF SEQ ID NOS: 54

SOFTWARE: PatentIn version 3.0  
SEQ ID NO 38779  
LENGTH: 128779  
TYPE: DNA  
ORGANISM: Homo sapiens/  
US-09-497-855A-38

Query Match 2.7%; Score 47; DB 4; Length 128779;  
Best Local Similarity 100.0%; Pred. No. 1.4e-09;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1520 AGAATCTTGAACCTGGAGGAGGAGGAGTTCAGTGCAGATCG 1566  
Db 94386 AGAATCTTGAACCTGGAGGAGGAGGAGTTCAGTGCAGATCG 94340

RESULT 12  
US-08-451-777A-7/C  
Sequence 7, Application US/08451777A  
Patent No. 5789223  
GENERAL INFORMATION:  
APPLICANT: Bergsma, Derk J.  
APPLICANT: Stambolian, Dwight  
TITLE OF INVENTION: Human Galactokinase Gene  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corp./Corporate  
ADDRESSEE: Intellectual Property  
STREET: 709 Swedeland Road/UW2220  
CITY: King of Prussia  
STATE: Pennsylvania  
COUNTRY: USA  
ZIP: 19406-0939  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/451,777A  
FILING DATE: 26-MAY-1995  
CLASSIFICATION: 436  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/10825  
FILING DATE: 23-SEP-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Eagle, Alissa M.  
REGISTRATION NUMBER: 37,126  
REFERENCE/DOCKET NUMBER: P50268-1B  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-270-5090  
TELEFAX: 610-270-5364  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7676 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-451-777A-7

Query Match 2.6%; Score 45; DB 1; Length 7676;  
Best Local Similarity 100.0%; Pred. No. 1.2e-08;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1527 CTGAACCTGGAGGAGGAGGAGTTCAGTGCAGATCGTGC 1571  
Db 4083 CTGAACCTGGAGGAGGAGGAGTTCAGTGCAGATCGTGC 4039

RESULT 13  
US-08-451-778A-7/C  
Sequence 7, Application US/08451778A

Patent No. 5830649  
GENERAL INFORMATION:  
APPLICANT: Bergsma, Derk J.  
APPLICANT: Stambolian, Dwight  
TITLE OF INVENTION: Human Galactokinase Gene  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corp./Corporate  
ADDRESSEE: Intellectual Property  
STREET: 709 Swedeland Road/UW2220  
CITY: King of Prussia  
STATE: Pennsylvania  
COUNTRY: USA  
ZIP: 19406-0939  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/451,778A  
FILING DATE: 26-MAY-1995  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/10825  
FILING DATE: 23-SEP-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Eagle, Alissa M.  
REGISTRATION NUMBER: 37,126  
REFERENCE/DOCKET NUMBER: P50268-1B  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-270-5364  
TELEFAX: 610-270-5090  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7676 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-451-778A-7

Query Match 2.6%; Score 45; DB 2; Length 7676;  
Best Local Similarity 100.0%; Pred. No. 1.2e-08;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1527 CTGAACCTGGAGGAGGAGGAGTTCAGTGCAGATCGTGC 1571  
Db 4083 CTGAACCTGGAGGAGGAGGAGTTCAGTGCAGATCGTGC 4039

RESULT 14  
US-08-998-208-7/C  
Sequence 7, Application US/08998208  
Patent No. 5880105  
GENERAL INFORMATION:  
APPLICANT: Bergsma, Derk J.  
APPLICANT: Stambolian, Dwight  
TITLE OF INVENTION: Human Galactokinase Gene  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SmithKline Beecham Corp./Corporate  
ADDRESSEE: Intellectual Property  
STREET: 709 Swedeland Road/UW2220  
CITY: King of Prussia  
STATE: Pennsylvania  
COUNTRY: USA  
ZIP: 19406-0939  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/998,208
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: 08/451,777
; APPLICATION NUMBER: 08/451,777
; FILING DATE: 26-MAY-1995
; APPLICATION NUMBER: PCT/US94/10825
; FILING DATE: 23-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Eagle, Alisha M.
; REGISTRATION NUMBER: 37,126
; REFERENCE//DOCKET NUMBER: P50268-1B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5364
; TELEFAX: 610-270-5090
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7676 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-998-208-7

Query Match          2.6%; Score 45; DB 2; Length 7676;
Best Local Similarity 100.0%; Pred. No. 1.2e-08;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db       4083 CTTGAACCTGGAGGAGGAGGTTGCAGTGAGCCGAGATCGTGCCA 4039

RESULT 15
PCT-US95-06743-7/c
; Sequence 7, Application PC/TUS9506743
; GENERAL INFORMATION:
; APPLICANT: Bergsma, Derk J.
; APPLICANT: Stambolian, Dwight
; TITLE OF INVENTION: Human Galactokinase Gene
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Smitkline Beecham Corp./Corporate
; ADDRESSEE: Intellectual Property
; STREET: 709 Swedeland Road/TW2220
; CITY: King of Prussia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/06743
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10825
; FILING DATE: 23-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Sutton, Jeffrey A.
; REGISTRATION NUMBER: 34,028
; REFERENCE//DOCKET NUMBER: P50268-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5024
; TELEFAX: 610-270-5090
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7676 base pairs
; TYPE: nucleic acid

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; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US95-06743-7

Query Match          2.6%; Score 45; DB 5; Length 7676;
Best Local Similarity 100.0%; Pred. No. 1.2e-08;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1527 CTTGAACCTGGAGGAGGAGGTTGCAGTGAGCCGAGATCGTGCCA 1571
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Db       4083 CTTGAACCTGGAGGAGGAGGTTGCAGTGAGCCGAGATCGTGCCA 4039

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Job time : 141.258 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using SW model

Run on: September 30, 2004, 21:52:37 ; Search time 817.411 Seconds  
(without alignments)  
10810.058 Million cell updates/sec

Title: US-10-077-698-2  
Perfect score: 1743  
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Gapop 60.0 , Gapext 60.0

Searched: 3340653 seqs, 2534783454 residues

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Published Applications NA:\*

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- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq:\*
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- 13: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*
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- 19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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3	1743	100.0	1743	15	US-10-171-027-2
4	1743	100.0	1743	15	US-10-075-987-2
5	1109	62.3	1160	14	US-10-015-498-1
6	1086	62.3	1086	14	US-10-086-181-3
7	1086	62.3	1086	15	US-10-083-168-11
8	1035	59.4	1086	15	US-09-992-331-1
9	1035	59.4	1086	15	US-10-083-168-78
10	1035	59.4	1086	15	US-10-262-313-1
11	1035	59.4	1086	15	US-10-768-878-1
12	984	56.5	1086	17	US-10-083-168-80
13	926	53.1	1086	9	US-09-995-325-7
14	926	53.1	1086	10	US-09-995-325-7

15	586	33.6	632	10	US-09-992-331-4	Sequence 4, App1
16	586	33.6	632	15	US-10-262-313-4	Sequence 4, App1
17	586	33.6	632	17	US-10-768-878-4	Sequence 4, App1
18	559	32.1	1066	15	US-10-017-161-1809	Sequence 1809, App
19	559	32.1	1066	16	US-10-292-798-1465	Sequence 1465, App
20	550	31.6	3173	15	US-10-116-252-5	Sequence 5, App1
21	391	22.4	1737	15	US-10-225-567-681	Sequence 681, App
22	337	19.3	368	13	US-10-276-774-265	Sequence 265, App
23	326	18.7	1104	10	US-09-791-932-10	Sequence 10, App1
24	298	17.1	760	13	US-10-076-553-771	Sequence 771, App
25	198	11.4	300	13	US-10-076-555-45	Sequence 45, App1
26	143	8.2	300	9	US-10-076-555-46	Sequence 46, App1
27	131	7.5	638	9	US-09-828-644-58	Sequence 58, App1
28	111	6.4	426	10	US-09-791-932-33	Sequence 33, App1
29	66	3.8	25871	9	US-09-768-743A-5	Sequence 5, App1
30	65	3.7	178896	17	US-10-450-826-53	Sequence 53, App1
31	58	3.3	2378	13	US-10-027-632-101748	Sequence 101748, App1
32	58	3.3	2378	15	US-10-027-632-101748	Sequence 101748, App1
33	58	3.3	162450	15	US-10-071-179-1	Sequence 1, App1
34	58	3.3	162450	15	US-10-126-704-1	Sequence 1, App1
35	57	3.3	80	10	US-09-992-331-5	Sequence 5, App1
36	57	3.3	80	15	US-10-262-313-5	Sequence 5, App1
37	57	3.3	80	15	US-10-768-878-5	Sequence 5, App1
38	57	3.3	19553	9	US-09-764-847-1425	Sequence 1425, App
39	57	3.3	19553	15	US-10-092-154-1425	Sequence 1425, App
40	55	3.2	319	17	US-10-474-495-143	Sequence 143, App
41	55	3.2	3287	13	US-10-027-632-113282	Sequence 113282, App
42	55	3.2	3287	13	US-10-027-632-113283	Sequence 113283, App
43	55	3.2	3287	13	US-10-027-632-113284	Sequence 113284, App
44	55	3.2	3287	16	US-10-027-632-113282	Sequence 113282, App
45	55	3.2	3287	16	US-10-027-632-113283	Sequence 113283, App

#### ALIGNMENTS

RESULT 1  
US-10-086-181-1  
; Sequence 1, Application US/10086181  
; Publication No. US20020177151A1  
; GENERAL INFORMATION:  
; APPLICANT: GIMENO, Ruth  
; TITLE OF INVENTION: METHODS FOR THE TREATMENT OF METABOLIC  
; FILE REFERENCE: NMI-220  
; CURRENT APPLICATION NUMBER: US/10/086.181  
; PRIOR FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 60/271,655  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1743  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURES:  
; NAME/KEY: CDS  
; LOCATION: (44)...(1129)  
US-10-086-181-1

Query Match 100.0%; Score 1743; DB 14; Length 1743;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1743; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TCCGACTAGTTTACAGCCGTCGCGGCGCCGAGCGCGGAGATGTCCTGATGCGC 60  
DB 1 TCCGACTAGTTTACAGCCGTCGCGGCGCCGAGCGCGGAGATGTCCTGATGCGC 60  
QY 61 GCGGCGAGCGCGCGCGCGCGCTTTCGCGAGCTTGAGCAAGCAACCGACCGCTTTC 120  
DB 61 GCGGCGAGCGCGCGCGCGCGCTTTCGCGAGCTTGAGCAAGCAACCGACCGCTTTC 120  
QY 121 CTTCCTTCGAGAGTCAAGGCGACCGGCTGTCTCTGCGCCGCGGTGAGACACCGT 180



Db 61 GCGGGGAGGCGGAGAGCGGCTTTGGGAGGCTGGAGCAAGCAACCGACCCGCTTCC 120  
Qy 121 CTTCTTCTCCGAGCTCAAGGGGAGCAACCGGCTGGCTGGCCCGGTGGAGCAACCGT 180  
Db 121 CTTCTTCTCCGAGCTCAAGGGGAGCAACCGGCTGGCTGGCCCGGTGGAGCAACCGT 180  
Qy 181 GCGGGGCTCATCTTTGAGGTGCGTGGGCAAGTGGGCGCTGGGTGGGTGGG 240  
Db 181 GCGGGGCTCATCTTTGAGGTGCGTGGGCAAGTGGGCGCTGGGTGGGTGGG 240  
Qy 241 GCGCGGAGAGCGCGCGCGCGAGCTGCGCTGGTACTCAACTCTTCTGCGGAGCT 300  
Db 241 GCGCGGAGAGCGCGCGCGCGAGCTGCGCTGGTACTCAACTCTTCTGCGGAGCT 300  
Qy 301 GCTCTTCATAGGCGTATCCCTCTGGTGGCGGTGGCGCTGAGCTGAGGCTGGCT 360  
Db 301 GCTCTTCATAGGCGTATCCCTCTGGTGGCGGTGGCGCTGAGGCTGGCT 360  
Qy 361 GGGGCGCGTGGCGGAGCGGCTCTTACGTGATGAGTACCTGAGCGGAGCGGCTGACAT 420  
Db 361 GGGGCGCGTGGCGGAGCGGCTCTTACGTGATGAGTACCTGAGCGGAGCGGCTGACAT 420  
Qy 421 CTTACGCTGGCGCGCTGAGCGGCTGAGCGGCTGAGCGGCTGAGCGGCTGAGCGG 480  
Db 421 CTTACGCTGGCGCGCTGAGCGGCTGAGCGGCTGAGCGGCTGAGCGGCTGAGCGG 480  
Qy 481 CTTGCGGGGCTCTGGGCGCGCGGCGGAGTGTCTGGCGCTCATCTGGGCTATTC 540  
Db 481 CTTGCGGGGCTCTGGGCGCGCGGCGGAGTGTCTGGCGCTCATCTGGGCTATTC 540  
Qy 541 GGGGCGCGCGCTCTGGCGCTCTGGCGCTCTTTCGAGTGGTCCCGGAGCGGCTCCCG 600  
Db 541 GGGGCGCGCGCTCTGGCGCTCTGGCGCTCTTTCGAGTGGTCCCGGAGCGGCTCCCG 600  
Qy 601 CCGCGGAGAGGAAATTTGATGAGCACTGATTTGGCCCACTTCTGGAGAGATCTC 660  
Db 601 CCGCGGAGAGGAAATTTGATGAGCACTGATTTGGCCCACTTCTGGAGAGATCTC 660  
Qy 661 GTGGGATGTCTCTTTGTTAATTGAACTTTGGTCCAGGAGTGGTCAATTGATCAG 720  
Db 661 GTGGGATGTCTCTTTGTTAATTGAACTTTGGTCCAGGAGTGGTCAATTGATCAG 720  
Qy 721 TTTCTCCAAATTTTACAGATCAAGAGATCAAGAGATCAAGAGATCAAGAGATCAAG 780  
Db 721 TTTCTCCAAATTTTACAGATCAAGAGATCAAGAGATCAAGAGATCAAGAGATCAAG 780  
Qy 781 CTACTCGGAGGAGCAGGAGATCGGCTGTCCAGAGAGATCTTCCGCTTCCGACCT 840  
Db 781 CTACTCGGAGGAGCAGGAGATCGGCTGTCCAGAGAGATCTTCCGCTTCCGACCT 840  
Qy 841 CTTCTCTCATGAGTCTCTTTTCAATGATGAGGCGGATCATCATCATCATCTCT 900  
Db 841 CTTCTCTCATGAGTCTCTTTTCAATGATGAGGCGGATCATCATCATCATCTCT 900  
Qy 901 CATTCGATGATCAAACTTCAAGAGAGAGCTGTGATCTGGCGCTCTTCTTCTGGT 960  
Db 901 CATTCGATGATCAAACTTCAAGAGAGAGCTGTGATCTGGCGCTCTTCTTCTGGT 960  
Qy 961 GGTGGCTTCACTTTGCTAATTCAGGCTTAAACCCATCTCTCAACATGACATGTG 1020  
Db 961 GGTGGCTTCACTTTGCTAATTCAGGCTTAAACCCATCTCTCAACATGACATGTG 1020  
Qy 1021 CAGGAAATGATGAGAAATTTTGTGCTGTGCTTCCAGAAAGGAGGAGCATTTT 1080  
Db 1021 CAGGAAATGATGAGAAATTTTGTGCTGTGCTTCCAGAAAGGAGGAGCATTTT 1080  
Qy 1081 AAGAGACACATCTGTCAAAAGAAATGATCTGTGATATTTTGGCTAATTTTCTTAT 1140  
Db 1081 AAGAGACACATCTGTCAAAAGAAATGATCTGTGATATTTTGGCTAATTTTCTTAT 1140  
Qy 1141 AGCGGAGTTTCTCAACCTGGCGAGCTGTGGAGTCTTTTAAACAGAGTTTCAAGT 1200  
Db 1141 AGCGGAGTTTCTCAACCTGGCGAGCTGTGGAGTCTTTTAAACAGAGTTTCAAGT 1200

Qy 1201 ACCCTCATGAGTCAACCTCTCTTAAAGAAATGAACTTATGAAATGACATCCAGC 1260  
Db 1201 ACCCTCATGAGTCAACCTCTCTTAAAGAAATGAACTTATGAAATGACATCCAGC 1260  
Qy 1261 GTCGGTAAATTAAGGGGTGATCAACCAAGTTTCAATATTTTCCCTTAAAGAGATT 1320  
Db 1261 GTCGGTAAATTAAGGGGTGATCAACCAAGTTTCAATATTTTCCCTTAAAGAGATT 1320  
Qy 1321 GTTGGCAGGTGAGTGTCTATGCTGTATATCCAGAGCTTGGAGGCTGAGTGGT 1380  
Db 1321 GTTGGCAGGTGAGTGTCTATGCTGTATATCCAGAGCTTGGAGGCTGAGTGGT 1380  
Qy 1381 GATCACTGAGGTGAGGATTTGAGGCAACCTGACCAACATGATGAGACCCCGCTC 1440  
Db 1381 GATCACTGAGGTGAGGATTTGAGGCAACCTGACCAACATGATGAGACCCCGCTC 1440  
Qy 1441 TACTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1500  
Db 1441 TACTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1500  
Qy 1501 CTTGGAGGCTGAACGAGGAAATCTTGAACCTGGAGGAGGAGGCTGAGGAGCG 1560  
Db 1501 CTTGGAGGCTGAACGAGGAAATCTTGAACCTGGAGGAGGAGGCTGAGGAGCG 1560  
Qy 1561 AGATCGGCTGATGATCTTCAACGAGGCAACAGAGTGAATCTTAAATTAATTAATTA 1620  
Db 1561 AGATCGGCTGATGATCTTCAACGAGGCAACAGAGTGAATCTTAAATTAATTAATTA 1620  
Qy 1621 AAAAAAAGATTTGTTATGAGGCTCTTAAATGAGTGAATCTTAAATTAATTAATTA 1680  
Db 1621 AAAAAAAGATTTGTTATGAGGCTCTTAAATGAGTGAATCTTAAATTAATTAATTA 1680  
Qy 1681 TGAATCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1740  
Db 1681 TGAATCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1740  
Qy 1741 CGG 1743  
Db 1741 CGG 1743

RESULT 3  
US-10-171-027-2  
; Sequence 2, Application US/10171027  
; Publication No. US20030073168A1  
; GENERAL INFORMATION:  
; APPLICANT: Gluckmann, Maria A.  
; TITLE OF INVENTION: 14273 Receptor, A No. US20030073168A1 G-Protein Coupled Receptor.  
; FILE REFERENCE: NMI-204CP3  
; CURRENT APPLICATION NUMBER: US/10/171,027  
; CURRENT FILING DATE: 2002-06-12  
; PRIOR APPLICATION NUMBER: US/09/456,455  
; PRIOR FILING DATE: 1999-12-08  
; PRIOR APPLICATION NUMBER: 09/223,538  
; PRIOR FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 1743  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-171-027-2

Query Match 100.0%; Score 1743; DB 15; Length 1743;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1743; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCGGACTAGTTCTAGACCGCTGCGGCGCGCAAGGCGCGGAGATGTCCCTGAATGCGC 60  
Db 1 TCCGGACTAGTTCTAGACCGCTGCGGCGCGCAAGGCGCGGAGATGTCCCTGAATGCGC 60

QY	61	GGGGGACAGGGGGCA	CGCGCCCTTGGCAGCTCTGAGCAAGCCACCGGCACTTCTCC	120
Dp	61	GGGGGACAGGGGGCA	CGCGCCCTTGGCAGCTCTGAGCAAGCCACCGGCACTTCTCC	120
QY	121	CTTCTTCGCAAGTCA	AGGGGGGACCAACCGGCTGTGTGGCCGGGTGGAGACAAACCGT	180
Dp	121	CTTCTTCGCAAGTCA	AGGGGGGACCAACCGGCTGTGTGGCCGGGTGGAGACAAACCGT	180
QY	181	GCTGTGTCTACTTTTG	AGTGTGCTGTGGGCAAGTGTGCGCCCTGTGTGTGTGGC	240
Dp	181	GCTGTGTCTACTTTTG	AGTGTGCTGTGGGCAAGTGTGCGCCCTGTGTGTGTGGC	240
QY	241	GGCGGACAGACGCG	CGCGCGGACCTGCTGCTGTGTACTCAACTCTTTCTGCGGAACT	300
Dp	241	GGCGGACAGACGCG	CGCGCGGACCTGCTGCTGTGTACTCAACTCTTTCTGCGGAACT	300
QY	301	GCTCTATACAGGCTAT	CCCTCTGTGTGTGGCGGTGGGACTAGAGGCTGTGGCT	360
Dp	301	GCTCTATACAGGCTAT	CCCTCTGTGTGTGGCGGTGGGACTAGAGGCTGTGGCT	360
QY	361	GGGCGCGGTTGCT	CGCCCACTGCTCTTACAGTATGACCCCTGACGGGCAAGCTACCAT	420
Dp	361	GGGCGCGGTTGCT	CGCCCACTGCTCTTACAGTATGACCCCTGACGGGCAAGCTACCAT	420
QY	421	CCTACGCTGGCCCG	GCTCAGCTTGAGCGCATGTGTGATCTGTGCACTTGACCGCGG	480
Dp	421	CCTACGCTGGCCCG	GCTCAGCTTGAGCGCATGTGTGATCTGTGCACTTGACCGCGG	480
QY	481	CGTGGGGGCTCTGT	GGGGGGGGGGGGGGGGGGGAGTGTGTGTGGCGCTCATCTGGGGCTATTC	540
Dp	481	CGTGGGGGCTCTGT	GGGGGGGGGGGGGGGGGGGAGTGTGTGTGGCGCTCATCTGGGGCTATTC	540
QY	541	GGCGGCTGCGCGCT	CTGTGCTCTCTGCGATCTTCTTCTGAGTCTGTCCCGGACACGGCTCCCGG	600
Dp	541	GGCGGCTGCGCGCT	CTGTGCTCTCTGCGATCTTCTTCTGAGTCTGTCCCGGACACGGCTCCCGG	600
QY	601	CGCGGACGAGAAAT	TTTGATTTGCACTGATTTGGCCCACTTCTCGGAGAGATCTC	660
Dp	601	CGCGGACGAGAAAT	TTTGATTTGCACTGATTTGGCCCACTTCTCGGAGAGATCTC	660
QY	661	GTGGAGTCTCTTTT	GTACTTTGAATCTTGTGGTGCAGAGACTGTGCATTTGTGATCAG	720
Dp	661	GTGGAGTCTCTTTT	GTACTTTGAATCTTGTGGTGCAGAGACTGTGCATTTGTGATCAG	720
QY	721	TTACTCCAAATTTTA	CCAGATCACAAGAGGCACTCAAGAGAGGGCTCACGGTAAACCTGTGC	780
Dp	721	TTACTCCAAATTTTA	CCAGATCACAAGAGGCACTCAAGAGAGGGCTCACGGTAAACCTGTGC	780
QY	781	CTACTCGAGAGCCA	CGAGATCCGGGTGTCCCAACAGGACTTCCGGCTCTTCCGCACTCT	840
Dp	781	CTACTCGAGAGCCA	CGAGATCCGGGTGTCCCAACAGGACTTCCGGCTCTTCCGCACTCT	840
QY	841	CTTCTCTCTTAN	GTGTCTCTTCAATGTGAAGAGGCGCCCATCATCATCAGACATCTCTCT	900
Dp	841	CTTCTCTCTTAN	GTGTCTCTTCAATGTGTGAGAGGCGCCCATCATCATCAGACATCTCTCT	900
QY	901	CATCTGATTCAGAA	CTTCAAGCAAGACTGTGTATCTGTGCGGTCTCTTCTTCTGTGGGT	960
Dp	901	CATCTGATTCAGAA	CTTCAAGCAAGACTGTGTATCTGTGCGGTCTCTTCTTCTGTGGGT	960
QY	961	GGTGGCCCTTCA	CAATTTGTGTAATTCAGCCCTTAAACCCCATCTCTTACAAATGACACTGTG	1020
Dp	961	GGTGGCCCTTCA	CAATTTGTGTAATTCAGCCCTTAAACCCCATCTCTTACAAATGACACTGTG	1020
QY	1021	CAGGAATAGTGTGA	AGAAATTTTTTGTGCTTCTGTGCTTCCCAAGAAAGGAGCCATTTT	1080
Dp	1021	CAGGAATAGTGTGA	AGAAATTTTTTGTGCTTCTGTGCTTCCCAAGAAAGGAGCCATTTT	1080
QY	1081	AACAGACACATCTG	CAAAAGAAATGACTGTGCACTTATTTTCTGTGCTAAATTTTCTTTAT	1140
Dp	1081	AACAGACACATCTG	CAAAAGAAATGACTGTGCACTTATTTTCTGTGCTAAATTTTCTTTAT	1140
QY	1141	AGCGGAGTTTCTCA	CACTGTGGCGAGCTGTGCACTCTTTTAAACAGATTCATTTTCCAGT	1200

DB	Sequence	Score	DB	Length	Query Match	Best Local Similarity	Matches
Db	1141 AGCCGAGTTTCTCAACCTGGGAGCTGTGGCATGCTTTTAAACAGATTCATTTCAGT	1200					
QY	1201 ACCCTCCATCACTGACACCCCTGCTTTAAGAAAATGAACCTATGCAAAATAGACATCCACAGC	1260					
Db	1201 ACCCTCCATCACTGACACCCCTGCTTTAAGAAAATGAACCTATGCAAAATAGACATCCACAGC	1260					
QY	1261 GTCCGTAATTAAGGGGTGATCAACCAAGTTTCATATATTTTCCCTTATATAAAGATTT	1320					
Db	1261 GTCCGTAATTAAGGGGTGATCAACCAAGTTTCATATATTTTCCCTTATATAAAGATTT	1320					
QY	1321 GTTGGCCAGGTGACAGTGGTTCATGCTGTAATCCAGAGTTTGGAGGCTGAGTGGGT	1380					
Db	1321 GTTGGCCAGGTGACAGTGGTTCATGCTGTAATCCAGAGTTTGGAGGCTGAGTGGGT	1380					
QY	1381 GGATCACCTGAGTCAAGAGTTCAGAACCACTGACCAACATGTTGAGACCCCGTCTC	1440					
Db	1381 GGATCACCTGAGTCAAGAGTTCAGAACCACTGACCAACATGTTGAGACCCCGTCTC	1440					
QY	1441 TACTAAAAATAAAAAAATTTAGCTGGAGTGTGTGGGACCTGTATCTTACTA	1500					
Db	1441 TACTAAAAATAAAAAAATTTAGCTGGAGTGTGTGGGACCTGTATCTTACTA	1500					
QY	1501 CTTGGGAGGCTGACACGAGAGATCTTGAACTGTGGAGGCGAGAGTTGCACTGAGCCG	1560					
Db	1501 CTTGGGAGGCTGACACGAGAGATCTTGAACTGTGGAGGCGAGAGTTGCACTGAGCCG	1560					
QY	1561 AGATGCTGCATTCGACCTCCAAACAGGCGCAACAGAGTGAATCTTAAAAA	1620					
Db	1561 AGATGCTGCATTCGACCTCCAAACAGGCGCAACAGAGTGAATCTTAAAAA	1620					
QY	1621 AAAAAAAGATTTGTTATGGTTCCTTTTAAATGTGAACCTTTTATGTGTGTGATA	1680					
Db	1621 AAAAAAAGATTTGTTATGGTTCCTTTTAAATGTGAACCTTTTATGTGTGTGATA	1680					
QY	1681 TGATCAATTTTAAATTAATTTATTTATGACTGTGACCAAAAAAAGAGG	1740					
Db	1681 TGATCAATTTTAAATTAATTTATTTATGACTGTGACCAAAAAAAGAGG	1740					
QY	1741 CGG 1743						
Db	1741 CGG 1743						
<p>RESULT 4</p> <p>US-10-075-987-2</p> <p>Sequence 2, Application US/10075987</p> <p>Publication No. US2003016061A1</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Glucksmann, Maria A.</p> <p>TITLE OF INVENTION: 14273 Receptor, A No. US2003016061A1 G-Protein Coupled Receptor</p> <p>FILE REFERENCE: 5800-4B, 035800/177086</p> <p>CURRENT APPLICATION NUMBER: US/10/075,987</p> <p>CURRENT FILING DATE: 2002-02-13</p> <p>PRIOR APPLICATION NUMBER: US/09/261,599B</p> <p>PRIOR FILING DATE: 1999-02-26</p> <p>PRIOR APPLICATION NUMBER: 09/223,538</p> <p>PRIOR FILING DATE: 1998-12-30</p> <p>NUMBER OF SEQ ID NOS: 7</p> <p>SOFTWARE: PatentIn Ver. 2.1</p> <p>SEQ ID NO 2</p> <p>LENGTH: 1743</p> <p>TYPE: DNA</p> <p>ORGANISM: Homo sapiens</p> <p>US-10-075-987-2</p>							
QY	1 TCCGAGCTAGTCTAGACCGCTGCGGCGCCAGGCGCGCGGAGATGCTCCCTGATGAGCG	60					
Db	1 TCCGAGCTAGTCTAGACCGCTGCGGCGCCAGGCGCGCGGAGATGCTCCCTGATGAGCG	60					

QY 61 GCGGCGACGCGGCGACCGCCCTTGGCAGCTTGAGACCAAGCCCAACCCGCTTCC 120  
 DB 61 GCGGCGACGCGGCGACCGCCCTTGGCAGCTTGAGACCAAGCCCAACCCGCTTCC 120  
 QY 121 CTTCTTCTCGACGCTCAAGGCGACGACCGGCTGTGCTGGCGCGGAGAGACACCGT 180  
 DB 121 CTTCTTCTCGACGCTCAAGGCGACGACCGGCTGTGCTGGCGCGGAGAGACACCGT 180  
 QY 181 GCTGTGCTCATCTTTGCACTGTGCTGTGGGCAACGTGTGCGCCCTGTGTGTGGC 240  
 DB 181 GCTGTGCTCATCTTTGCACTGTGCTGTGGGCAACGTGTGCGCCCTGTGTGTGGC 240  
 QY 241 GCGCCGACGACGCGCGCGCGCGACGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 300  
 DB 241 GCGCCGACGACGCGCGCGCGCGACGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 300  
 QY 301 GCTCTTCTCATGAGGCTATCCCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360  
 DB 301 GCTCTTCTCATGAGGCTATCCCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360  
 QY 361 GGGCGCGGCTGTGCTGCTGCTCTTCTAAGTATGACCTGTAGCGGACGCTCACAT 420  
 DB 361 GGGCGCGGCTGTGCTGCTGCTCTTCTAAGTATGACCTGTAGCGGACGCTCACAT 420  
 QY 421 CTTCAAGCTGTGCGCGGCTGAGCTGTGAGCGCATGTGTGTGTGTGTGTGTGTGTGTGT 480  
 DB 421 CTTCAAGCTGTGCGCGGCTGAGCTGTGAGCGCATGTGTGTGTGTGTGTGTGTGTGTGT 480  
 QY 481 CTTCAAGCTGTGCGCGGCTGAGCTGTGAGCGCATGTGTGTGTGTGTGTGTGTGTGTGT 540  
 DB 481 CTTCAAGCTGTGCGCGGCTGAGCTGTGAGCGCATGTGTGTGTGTGTGTGTGTGTGTGT 540  
 QY 541 GGGCGGCTGTGCTGCTGCTCTTCTTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600  
 DB 541 GGGCGGCTGTGCTGCTGCTCTTCTTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600  
 QY 601 GCGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 660  
 DB 601 GCGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 660  
 QY 661 GTGGGATGTCTCTTTGTGTTGATCTTGTGATCTTGTGATCTTGTGATCTTGTGATCT 720  
 DB 661 GTGGGATGTCTCTTTGTGTTGATCTTGTGATCTTGTGATCTTGTGATCTTGTGATCT 720  
 QY 721 TTAATCCAAATTTTACAGATCACAAGGACATCAAGAGGCTCAAGGCTCAAGGCTGAC 780  
 DB 721 TTAATCCAAATTTTACAGATCACAAGGACATCAAGAGGCTCAAGGCTCAAGGCTGAC 780  
 QY 781 CTACTGAGAGGACCAAGATCCGCGGTGTGCGACGACGACGACGACGACGACGACGAC 840  
 DB 781 CTACTGAGAGGACCAAGATCCGCGGTGTGCGACGACGACGACGACGACGACGACGAC 840  
 QY 841 CTTCTCTCTGATGTCTCTTCTTCAATCATGTGAGGCGCATCATCATCATCATCATCAT 900  
 DB 841 CTTCTCTCTGATGTCTCTTCTTCAATCATGTGAGGCGCATCATCATCATCATCATCAT 900  
 QY 901 CATCTGATCAGAACTTCAAGAGACGCTGTATCTGCGCGCTCTTCTTCTTCTTCTTCT 960  
 DB 901 CATCTGATCAGAACTTCAAGAGACGCTGTATCTGCGCGCTCTTCTTCTTCTTCTTCT 960  
 QY 961 GGTGGCTTCACTTGTCTAATTCAGCCCTAAACCCCATCTCTTCAACATGACACTGTG 1020  
 DB 961 GGTGGCTTCACTTGTCTAATTCAGCCCTAAACCCCATCTCTTCAACATGACACTGTG 1020  
 QY 1021 CAGGAATGATGAGAAATTTTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1080  
 DB 1021 CAGGAATGATGAGAAATTTTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1080  
 QY 1081 AACGACACATCTGTCAAAAGAAATGACTGTGATTAATTTCTGCTAATTTTCTTAT 1140  
 DB 1081 AACGACACATCTGTCAAAAGAAATGACTGTGATTAATTTCTGCTAATTTTCTTAT 1140

QY 1141 AGCGAGTTTCTGACACCTGCGAGGCTGTGAGTCTTTTAAACAGATTCAATTCAGT 1200  
 DB 1141 AGCGAGTTTCTGACACCTGCGAGGCTGTGAGTCTTTTAAACAGATTCAATTCAGT 1200  
 QY 1201 ACCCTCATGATGACACCTCTTTTAAAGAAATGAACTTATGCAATATGACATCAGC 1260  
 DB 1201 ACCCTCATGATGACACCTCTTTTAAAGAAATGAACTTATGCAATATGACATCAGC 1260  
 QY 1261 GTGCGTAAATTAAGGCTGATCAACAAATTTTATATATTTTCTTTTAAAGATTT 1320  
 DB 1261 GTGCGTAAATTAAGGCTGATCAACAAATTTTATATATTTTCTTTTAAAGATTT 1320  
 QY 1321 GTTGGCAGGTGAGGTGATGAGCTGTATCCAGACGTTTGGAGGCTGAGTGGGT 1380  
 DB 1321 GTTGGCAGGTGAGGTGATGAGCTGTATCCAGACGTTTGGAGGCTGAGTGGGT 1380  
 QY 1381 GATATCACTGAGGTGAGGATTTGAGACCAACCTGACCAATGATGAGACCCGCTCTC 1440  
 DB 1381 GATATCACTGAGGTGAGGATTTGAGACCAACCTGACCAATGATGAGACCCGCTCTC 1440  
 QY 1441 TACTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1500  
 DB 1441 TACTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1500  
 QY 1501 CTTGGAGGCTGAACCAAGGATCTTGAACCTGGAGGCAAGGTTGACGTAGAGCGG 1560  
 DB 1501 CTTGGAGGCTGAACCAAGGATCTTGAACCTGGAGGCAAGGTTGACGTAGAGCGG 1560  
 QY 1561 AGATCGTGCATTCATCTCAACAGGCAACAGAGTGAATCTCTTAAATTAATTAATTA 1620  
 DB 1561 AGATCGTGCATTCATCTCAACAGGCAACAGAGTGAATCTCTTAAATTAATTAATTA 1620  
 QY 1621 AAAAAAAGATTTGTTATGAGGCTCTTTAAATGTAATTTTGTGTGTGTGTGTGT 1680  
 DB 1621 AAAAAAAGATTTGTTATGAGGCTCTTTAAATGTAATTTTGTGTGTGTGTGTGTGT 1680  
 QY 1681 TGAATCAATTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1740  
 DB 1681 TGAATCAATTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1740  
 QY 1741 CGG 1743  
 DB 1741 CGG 1743  
 RESULT 5  
 US-10-015-498-1  
 ; Sequence 1, Application US/10015498  
 ; Publication No. US20020151705A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Smith, Kelli E.  
 ; APPLICANT: Quan, Yong  
 ; TITLE OF INVENTION: DNA Encoding Orphan SNORF49 Receptor  
 ; FILE REFERENCE: 60134  
 ; CURRENT APPLICATION NUMBER: US/10/015,498  
 ; CURRENT FILING DATE: 2001-12-11  
 ; PRIOR APPLICATION NUMBER: US/09/412,933  
 ; NUMBER OF SEQ ID NOS: 2  
 ; SOFTWARE: PatentIn Ver. 2.0 - beta  
 ; SEQ ID NO 1  
 ; LENGTH: 1160  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-015-498-1  
 Query Match 63.6%; Score 1109; DB 14; Length 1160;  
 Best Local Similarity 99.9%; Pred. No. 0;  
 Matches 1159; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 17 ACCGTCGCGGCGCGACGCGCGGAAATGTCCCTGAATGCGCGGCGACGCGCGAC 76  
 DB 1 ACCGTCGCGGCGCGACGCGCGGAAATGTCCCTGAATGCGCGGCGACGCGCGAC 60

QY	77	GGCGCCCTTGGCGACCGCTGAGAGCAAGCCAAACCGACCCCGCTTCCCTCTTCTCCGACGTC	136
Db	61	GGCGCCCTTGGCGACCGCTGAGAGCAAGCCAAACCGACCCCGCTTCCCTCTTCTCCGACGTC	120
QY	137	AAGGCGCAGCAACCCGCGCTGCTGCTGAGCGCGCGGTGAGACAACCCGTCGTGATCATCTTT	196
Db	121	AAGGCGCAGCAACCCGCGCTGCTGCTGAGCGCGCGGTGAGACAACCCGTCGTGATCATCTTT	180
QY	197	GCACTGTTCGCTGCTGAGGCAAGTGTGGGCGCTGGTGTGTGGTGGCGGCCCAACGCGCGC	256
Db	181	GCACTGTTCGCTGCTGAGGCAAGTGTGGGCGCTGGTGTGTGGTGGCGGCCCAACGCGCGC	240
QY	257	GGCGCGACCTGCGCTGCTGATCAACTCTTTCGCGCGGACCTGCTCTTATCAGCGCT	316
Db	241	GGCGCGACCTGCGCTGCTGATCAACTCTTTCGCGCGGACCTGCTCTTATCAGCGCT	300
QY	317	ATCCCTCTGTGTGCGCGCTGCGCTGGACTGAGCGCTGTGCTGGGCCCGCTTGCCTGC	376
Db	301	ATCCCTCTGTGTGCGCGCTGCGCTGGACTGAGCGCTGTGCTGGGCCCGCTTGCCTGC	360
QY	377	CACCTGCTCTTACGTGATGACCTCTGAGCGGAGCGGACCATCTCAAGCTGAGCGCG	436
Db	361	CACCTGCTCTTACGTGATGACCTCTGAGCGGAGCGGACCATCTCAAGCTGAGCGCG	420
QY	437	GTCAAGCTGAGCGCGCATGTGTGATCGTGCACCTGCAGCGCGCGGTGCGGGATCTGGG	496
Db	421	GTCAAGCTGAGCGCGCATGTGTGATCGTGCACCTGCAGCGCGCGGTGCGGGATCTGGG	480
QY	497	CGGCGGGGCGCGGGGAGTGTCTGTGCGGTACTATCTGGGGCTATTTGGGGGCTGCGGCTGTG	556
Db	481	CGGCGGGGCGCGGGGAGTGTCTGTGCGGTACTATCTGGGGCTATTTGGGGGCTGCGGCTGTG	540
QY	557	CCTCTCTGCGCTCTTCTTGCAGTGTGTCCGGAACGGCTCCCGCGCGCGACCAAGAAATT	616
Db	541	CCTCTCTGCGCTCTTCTTGCAGTGTGTCCGGAACGGCTCCCGCGCGCGACCAAGAAATT	600
QY	617	TCGATTTGCACTGATTTGGCCCAACATTCCTGAGAGATCTGTGGGATGTCTCTTTT	676
Db	601	TCGATTTGCACTGATTTGGCCCAACATTCCTGAGAGATCTGTGGGATGTCTCTTTT	660
QY	677	GTTACTTTGAACCTCTTGGTGGCCAGGATGTGATCATTTGATCAGTATCTCCAAATTTTA	736
Db	661	GTTACTTTGAACCTCTTGGTGGCCAGGATGTGATCATTTGATCAGTATCTCCAAATTTTA	720
QY	737	CAGATCACAAAGGCATCAAGAGAAGGCTCAACGGTAAGCCTGTGCTACTCGAGAGCCAC	796
Db	721	CAGATCACAAAGGCATCAAGAGAAGGCTCAACGGTAAGCCTGTGCTACTCGAGAGCCAC	780
QY	797	CAGATCCGCGGTGTCCGACAGAGACTTCCGGGCTTTCGCGACCCCTTCTCTCTCATGTTC	856
Db	781	CAGATCCGCGGTGTCCGACAGAGACTTCCGGGCTTTCGCGACCCCTTCTCTCTCATGTTC	840
QY	857	TCCTCTTCATCATGTGAGCCCGCATCATCATCAACATCTCTCTCATCTGATCCAGAAC	916
Db	841	TCCTCTTCATCATGTGAGCCCGCATCATCATCAACATCTCTCTCATCTGATCCAGAAC	900
QY	917	TTCAAAGCAAGACTGTGTATCTGTGCGCTGCTCTTCTTGTGGGTGTGGCTTCACTTT	976
Db	901	TTCAAAGCAAGACTGTGTATCTGTGCGCTGCTCTTCTTGTGGGTGTGGCTTCACTTT	960
QY	977	GCTAATTGAGCCCTTAAACCCCATCTCTTACAACAATGACACTGTGAGAGATGAGTGGAG	1036
Db	961	GCTAATTGAGCCCTTAAACCCCATCTCTTACAACAATGACACTGTGAGAGATGAGTGGAG	1020
QY	1037	AAAAATTTTGTGCTCTTGTGTGTCCCAAAAAAGGAGCATTTTAAAGACACATCTGTTC	1096
Db	1021	AAAAATTTTGTGCTCTTGTGTGTCCCAAAAAAGGAGCATTTTAAAGACACATCTGTTC	1080
QY	1097	AAAAAAATGACTTGTGCATTAATTTCTGTGCTAATTTTCTTTATAGCGGATTTCTCACA	1156
Db	1081	AAAAAAATGACTTGTGCATTAATTTCTGTGCTAATTTTCTTTATAGCGGATTTCTCACA	1140

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OY      1157  CTTGGCAGCGCTGTGCATGC  1176
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DB      1141  CTTGGCAGCGCTGTGCATGC  1160

RESULT 6
US-10-086-181-3
; Sequence 3, Application US/10086181
; Publication No. US20020177151A1
; GENERAL INFORMATION:
; APPLICANT: GIMENO, Ruth
; TITLE OF INVENTION: METHODS FOR THE TREATMENT OF METABOLIC
; TITLE OF INVENTION: DISORDERS, INCLUDING OBESITY AND DIABETES
; FILE REFERENCE: MNI-220
; CURRENT APPLICATION NUMBER: US/10/086.181
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 60/271,655
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1086
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-086-181-3

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Query Match	62.3%;	Score 1086;	DB 14;	Length 1086;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1086;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

QY	44	ATGTCCTTGAATGCGCGCGGCGACGCGGCGCCCTTGCGAGCTGGAGCAAGCC	103
Db	1	ATGTCCTTGAATGCGCGCGGCGACGCGGCGCCCTTGCGAGCTGGAGCAAGCC	60
QY	104	AACGCAACCCGCTTCCCTTCTTCCGACGTCAAGGGCGACACACCGCTGGTGTGCC	163
Db	61	AACGCAACCCGCTTCCCTTCTTCCGACGTCAAGGGCGACACACCGCTGGTGTGCC	120
QY	164	GCGGTGAGACAAACCTGTGCTGCTCAATCTTTCAGATGTGCTGTCTGGGCAACGTGTGC	223
Db	121	GCGGTGAGAGAACACCTGTGCTGCTCAATCTTTCAGATGTGCTGTCTGGGCAACGTGTGC	180
QY	224	GCCCTGAGTCTGTGTGGCGCGCGGACGACGCGCGCGCGACTGTGCTGTGTAATCAAC	283
Db	181	GCCCTGAGTCTGTGTGGCGCGCGGACGACGCGCGCGCGACTGTGCTGTGTAATCAAC	240
QY	284	CTCTTCTGCGGGAACCTCTCTTTCATCAGCGCTATCCCTGTGGTCTGGCGGTGG	343
Db	241	CTCTTCTGCGGGAACCTCTCTTTCATCAGCGCTATCCCTGTGGTCTGGCGGTGG	300
QY	344	ACTGAGGCTTGGCTTCTGTGGGCCCGGCTGTGCTGCGACCTGTCTTTCAGTATGACCCTG	403
Db	301	ACTGAGGCTTGGCTTCTGTGGGCCCGGCTGTGCTGCGACCTGTCTTTCAGTATGACCCTG	360
QY	404	AGCGGACAGTACACCATCTCAAGCTGGCGCGGAGTCAGCTTGAGGCGCATGTGTGCATC	463
Db	361	AGCGGACAGTACACCATCTCAAGCTGGCGCGGAGTCAGCTTGAGGCGCATGTGTGCATC	420
QY	464	GTCGACCTTGACAGCGCGGTGTGGGGTCTGTGGCGCGCGGGCGCGCACTGTCTGTGGG	523
Db	421	GTCGACCTTGACAGCGCGGTGTGGGGTCTGTGGCGCGCGGGCGCGCACTGTCTGTGGG	480
QY	524	CTCATCTGTGGGCTTATTTGGCGGTGTGGCGCTGTGCGCTCTGTGGGTCTTCTTTCGAGTCGC	583
Db	481	CTCATCTGTGGGCTTATTTGGCGGTGTGGCGCTGTGCGCTCTGTGGGTCTTCTTTCGAGTCGC	540
QY	584	CCGCAACGGCTCCCGCGCGCGCACCAAGAAATTTGCATTTGGACACTGAATTTGGCCACC	643
Db	541	CCGCAACGGCTCCCGCGCGCGCACCAAGAAATTTGCATTTGGACACTGAATTTGGCCACC	600
QY	644	ATTCTCTGAGAGATCTCGTGGAGTGTCTTTTGTACTTTGAATCTTCTTGGTCCAGGA	703
Db	601	ATTCTCTGAGAGATCTCGTGGAGTGTCTTTTGTACTTTGAATCTTCTTGGTCCAGGA	660

QY 704 CTGTCATTGTGATCACTTACTCCAAATTTTACAGATCAAAAGCATCAAGAAAGG 763  
DB 661 CTGGTATTTGTGATCACTTACTCCAAATTTTACAGATCAAAAGCATCAAGAAAGG 720  
QY 764 CTACAGGTAAAGCTGGGCTACTGCGAGAGCAACGATCCGCGTGTCCAGCAGACTTC 823  
DB 721 CTACAGGTAAAGCTGGGCTACTGCGAGAGCAACGATCCGCGTGTCCAGCAGACTTC 780  
QY 824 CGGCTCTTCGCAACCTCTTCTCTCATGATGCTCTTCTTTCATCATGTGAGCCCATC 883  
DB 781 CGGCTCTTCGCAACCTCTTCTCTCATGATGCTCTTCTTTCATCATGTGAGCCCATC 840  
QY 884 ATATATCAACCATCTCTCTCATCTGATTCAGAACTTCAAGCAAGACCTGTGATCTGCGC 943  
DB 841 ATATATCAACCATCTCTCTCATCTGATTCAGAACTTCAAGCAAGACCTGTGATCTGCGC 900  
QY 944 TCCCTCTTCTTCTGGGAGTGGGCTTCAATTCAGGCTTAACCCCATCTC 1003  
DB 901 TCCCTCTTCTTCTGGGAGTGGGCTTCAATTCAGGCTTAACCCCATCTC 960  
QY 1004 TACAACATGACACTGTGACAGAAATGATGAGAAATTTTGTGCTTCTGCTTCCCA 1063  
DB 961 TACAACATGACACTGTGACAGAAATGATGAGAAATTTTGTGCTTCTGCTTCCCA 1020  
QY 1064 GAAAAGGAGCCATTTTAAACAGACATCTGTCAAAGAAATGACTTGTGATTTTCT 1123  
DB 1021 GAAAAGGAGCCATTTTAAACAGACATCTGTCAAAGAAATGACTTGTGATTTTCT 1080  
QY 1124 GGCTAA 1129  
DB 1081 GGCTAA 1086

RESULT 7  
US-10-083-168-11  
; Sequence 11, Application US/10083168  
; Publication No. US20030023069A1  
; GENERAL INFORMATION:  
; APPLICANT: Liaw, Chen W.  
; APPLICANT: Chalmers, Derek T.  
; APPLICANT: Behan, Dominic P.  
; APPLICANT: Maciejewski-Lemior, Dominique  
; APPLICANT: Leonard, James N.  
; APPLICANT: Ottuno, Daniel  
; APPLICANT: Lin, I-Lin  
; TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively Act  
; TITLE OF INVENTION: Receptors  
; FILE REFERENCE: AREN-0330  
; CURRENT APPLICATION NUMBER: US/10/083,168  
; NUMBER OF SEQ ID NOS: 102  
; SOFTWARE: Patent version 3.1  
; SEQ ID NO 11  
; LENGTH: 1086  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-083-168-11

Query Match 62.3%; Score 1086; DB 15; Length 1086;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1086; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 44 ATGTCCCTGTAATGCGCGCGGAGCGCGGCGAGCGCGCTTGTGCGAGCTGTGAGCAAGCC 103  
DB 1 ATGTCCCTGTAATGCGCGCGGAGCGCGGCGAGCGCGCTTGTGCGAGCTGTGAGCAAGCC 60  
QY 104 AACCGCACCGGCTTCTCTTCTTCTCGAGCTCAAGGGCGACACCGGCTGTGTGCTGCGC 163  
DB 61 AACCGCACCGGCTTCTCTTCTTCTCGAGCTCAAGGGCGACACCGGCTGTGTGCTGCGC 120  
QY 164 GCGGTGAGACACCGGTGTGTGCTCATCTTGTGCACTGTGCGGTGTGCGCAAGCTGTGC 223

DB 121 GCGGTGAGACACCGGTGTGTGCTCATCTTGTGCACTGTGCGGTGTGCGCAAGCTGTGC 180  
QY 224 GCGGT 283  
DB 181 GCGGT 240  
QY 284 CTCTTCTGCGGAGACCTGTCTTTCATGAGGCTATCCCTGTGTGTGTGTGTGTGTGTGTGTGT 343  
DB 241 CTCTTCTGCGGAGACCTGTCTTTCATGAGGCTATCCCTGTGTGTGTGTGTGTGTGTGTGTGT 300  
QY 344 ACTGAGGCTGT 403  
DB 301 ACTGAGGCTGT 360  
QY 404 AGGCGGAGCTGACATCTTCAAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 463  
DB 361 AGGCGGAGCTGACATCTTCAAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420  
QY 464 GTGCACTGTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 523  
DB 421 GTGCACTGTGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 480  
QY 524 CTGATCTGGGCTAATTCGCGGCTGT 583  
DB 481 CTGATCTGGGCTAATTCGCGGCTGT 540  
QY 584 CCGCAACGCTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 643  
DB 541 CCGCAACGCTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 600  
QY 644 ATTCCTGGAAGATCTGT 703  
DB 601 ATTCCTGGAAGATCTGT 660  
QY 704 CTGTCATTGTGATCACTTACTCCAAATTTTACAGATCAAAAGCATCAAGAAAGG 763  
DB 661 CTGTCATTGTGATCACTTACTCCAAATTTTACAGATCAAAAGCATCAAGAAAGG 720  
QY 764 CTACAGGTAAAGCTGGGCTACTGCGAGAGCAACGATCCGCGTGTCCAGCAGACTTC 823  
DB 721 CTACAGGTAAAGCTGGGCTACTGCGAGAGCAACGATCCGCGTGTCCAGCAGACTTC 780  
QY 824 CGGCTCTTCGCAACCTCTTCTCTCATGATGCTCTTCTTTCATCATGTGAGCCCATC 883  
DB 781 CGGCTCTTCGCAACCTCTTCTCTCATGATGCTCTTCTTTCATCATGTGAGCCCATC 840  
QY 884 ATATATCAACCATCTCTCTCATCTGATTCAGAACTTCAAGCAAGACCTGTGATCTGCGC 943  
DB 841 ATATATCAACCATCTCTCTCATCTGATTCAGAACTTCAAGCAAGACCTGTGATCTGCGC 900  
QY 944 TCCCTCTTCTTCTGGGAGTGGGCTTCAATTCAGGCTTAACCCCATCTC 1003  
DB 901 TCCCTCTTCTTCTGGGAGTGGGCTTCAATTCAGGCTTAACCCCATCTC 960  
QY 1004 TACAACATGACACTGTGACAGAAATGATGAGAAATTTTGTGCTTCTGCTTCCCA 1063  
DB 961 TACAACATGACACTGTGACAGAAATGATGAGAAATTTTGTGCTTCTGCTTCCCA 1020  
QY 1064 GAAAAGGAGCCATTTTAAACAGACATCTGTCAAAGAAATGACTTGTGATTTTCT 1123  
DB 1021 GAAAAGGAGCCATTTTAAACAGACATCTGTCAAAGAAATGACTTGTGATTTTCT 1080

RESULT 8  
US-09-992-331-1  
; Sequence 1, Application US/09992331  
; Publication No. US20030022186A1  
; GENERAL INFORMATION:  
; APPLICANT: FEDER, JOHN N.









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QY 884 ATCATCAGACATCTCTCATCTGATCCAGAACTTCAAGCAAGACTGTGATCTGACCG 943
| | | | |
DB 841 ATATCATCAGATCTCTCTCATCTGATCCAGAACTTCAAGCAAGACTGTGATCTGACCG 900
| | | | |
QY 944 TCCCTCTTCTTGTGGGTGGTGGCTTCAATTGCTAATTCAAGCCCTTAAACCCCATCTC 1003
| | | | |
DB 901 TCCCTCTTCTTGTGGGTGGTGGCTTCAATTGCTAATTCAAGCCCTTAAACCCCATCTC 960
| | | | |
QY 1004 TACAACATGACATCTGACAGAAATGATGAGAAATTTTTCCTGCTCTGCTTCCCA 1063
| | | | |
DB 961 TACAACATGACATCTGACAGAAATGATGAGAAATTTTTCCTGCTCTGCTTCCCA 1020
| | | | |
QY 1064 GAAAGGAGACCATTTTAAAGACACATCTGTCAAAAGAAATGACTTGTGATTTTCT 1123
| | | | |
DB 1021 GAAAGGAGACCATTTTAAAGACACATCTGTCAAAAGAAATGACTTGTGATTTTCT 1080
| | | | |
QY 1124 GGCTAA 1129
| | | | |
DB 1081 GGCTAA 1086
| | | | |

RESULT 11
US-10-768-878-1
; Sequence 1, Application US/10768878
; Publication No. US20040161823A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HIGHLY IN PITUITARY GLAND, COLON CARCINOMA, AND LUNG CANCER CELL
; FILE REFERENCE: D0048A CIP2
; CURRENT APPLICATION NUMBER: US/10/768, 878
; PRIOR APPLICATION NUMBER: U.S. 09/992,331
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: U.S. 60/248,483
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: U.S. 10/262,313
; PRIOR FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: U.S. 60/261,782
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: U.S. 60/308,540
; PRIOR FILING DATE: 2001-07-27
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 1086
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-768-878-1

Query Match 59.4%; Score 1035; DB 17; Length 1086;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1085; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 44 ATGTCCCTGAATGCGCGGAGCGAGCGCGCGCTTGCAGAGCTGGAACAAGCC 103
| | | | |
DB 1 ATGTCCCTGAATGCGCGGAGCGAGCGCGCGCTTGCAGAGCTGGAACAAGCC 60
| | | | |

QY 104 AACCGACCCGCTTCTCTTCTTCTCGAGCTCAAGGAGCAACCGGCTGTGCTGACC 163
| | | | |
DB 61 AACCGACCCGCTTCTCTTCTTCTCGAGCTCAAGGAGCAACCGGCTGTGCTGACC 120
| | | | |

QY 164 GCGGTGAGACAAACCGGTGAGTCTCATCTTTGCAATGTCGTGCTGGGAAAGTGTGC 223
| | | | |
DB 121 GCGGTGAGACAAACCGGTGAGTCTCATCTTTGCAATGTCGTGCTGGGAAAGTGTGC 180
| | | | |

QY 224 GCGGTGAGTGTGAGCGCGCGAGAGCGCGCGGAGTGTGCTGCTGCTGTAACAAC 283
| | | | |
DB 181 GCGGTGAGTGTGAGCGCGCGAGAGCGCGCGGAGTGTGCTGCTGCTGTAACAAC 240
| | | | |

QY 284 CTCTTGTGCGGAGACTGCTTTCATCAAGCGCTATCCCTGTGAGTGTGCGGTGCGCTG 343
| | | | |
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DB 241 CTCTTGTGCGGAGACTGCTTTCATCAAGCGCTATCCCTGTGAGTGTGCGGTGCGCTG 300
| | | | |
QY 344 ACTGAGGCTGTGCTGAGGAGCGCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 403
| | | | |
DB 301 ACTGAGGCTGTGCTGAGGAGCGCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
| | | | |
QY 404 AGCGGAGCGTCAATCTCTGACGCTGCGCGGCTGAGCGCTGAGCGGAGTGTGCTGCTG 463
| | | | |
DB 361 AGCGGAGCGTCAATCTCTGACGCTGCGCGGCTGAGCGGAGTGTGCTGCTGCTGCTG 420
| | | | |
QY 464 GTGACCTGAGGCGCGGCTGCGGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 523
| | | | |
DB 421 GTGACCTGAGGCGCGGCTGCGGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
| | | | |
QY 524 CTGATCTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGT 583
| | | | |
DB 481 CTGATCTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGT 540
| | | | |
QY 584 CGGCAAGGCTCCCGCGCGCGAGCAAGAAATTTGATTTGACATGATTTGAGGAGGAGGAG 643
| | | | |
DB 541 CGGCAAGGCTCCCGCGCGCGAGCAAGAAATTTGATTTGACATGATTTGAGGAGGAGGAG 600
| | | | |
QY 644 ATTCCTGAGAGATCTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGT 703
| | | | |
DB 601 ATTCCTGAGAGATCTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGTGTGAGGAGT 660
| | | | |
QY 704 CTGATCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 763
| | | | |
DB 661 CTGATCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 720
| | | | |
QY 764 CTGATCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 823
| | | | |
DB 721 CTGATCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 780
| | | | |
QY 824 CGGCTCTTCCGAGCGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 883
| | | | |
DB 781 CGGCTCTTCCGAGCGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 840
| | | | |
QY 884 ATCATCAGATCTCTCTCATCTGATCCAGAACTTCAAGCAAGACTGTGATCTGACCG 943
| | | | |
DB 841 ATCATCAGATCTCTCTCATCTGATCCAGAACTTCAAGCAAGACTGTGATCTGACCG 900
| | | | |
QY 944 TCCCTCTTCTTGTGGGTGGTGGCTTCAATTGCTAATTCAAGCCCTTAAACCCCATCTC 1003
| | | | |
DB 901 TCCCTCTTCTTGTGGGTGGTGGCTTCAATTGCTAATTCAAGCCCTTAAACCCCATCTC 960
| | | | |
QY 1004 TACAACATGACATCTGACAGAAATGATGAGAAATTTTTCCTGCTCTGCTTCCCA 1063
| | | | |
DB 961 TACAACATGACATCTGACAGAAATGATGAGAAATTTTTCCTGCTCTGCTTCCCA 1020
| | | | |

RESULT 12
US-10-083-168-80
; Sequence 80, Application US/10083168
; Publication No. US20030023069A1
; GENERAL INFORMATION:
; APPLICANT: Liaw, Chen W.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Behan, Dominic P.
; APPLICANT: Maciejewski-Lemlor, Dominique
; APPLICANT: Leonard, James N.
; APPLICANT: Ortuno, Daniel
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Endogenous And No. US20030023069A1-Endogenous, Constitutively Acti
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OY	51	TTGATATGGCGCGGGGACCGGGGACAGCGGCGCTTGCGGAGCTGTGAGCAACCAACGGCA	110
Db	8	CTGAATGCGCGCGGGACAGCGGGCCCAAGCGCCCTTTGCGAGCTGTGAAGCAACCAACGGCA	67
OY	111	CCCGCTTTCCTTCTCTCCAGCTCAAGGGGACACACCGGCTGGTGTGGCGCGGTGG	170
Db	68	CCCGCTTTCCTTCTCTCCAGCTCAAGGGGACACACCGGCTGGTGTGGCGCGGTGG	127
OY	171	AGACAACCTGTGTGTGTCTCATCTTTTGCAGTGTGCTGTGTGGGCAAGTGTGCGCCTGG	230
Db	128	AGACAACCTGTGTGTGTCTCATCTTTTGCAGTGTGCTGTGTGGGCAAGTGTGCGCCTGG	187
OY	231	TGCTGTGTGGGGCGCGAGACGCGCGCGGGGACGTCGCTGTGCTGTATCTAAACCTTCT	290
Db	188	TGCTGTGTGGGGCGCGAGACGCGCGGGGACGTCGCTGTGCTGTATCTAAACCTTCT	247
OY	291	GCGGGACCTGTCTCTTCATCAGCGCTAACCTCTGTGTGTGTGGCGCGTGTGACTGAGG	350
Db	248	GCGGGACCTGTCTCTTCATCAGCGCTAACCTCTGTGTGTGTGGCGCGTGTGACTGAGG	307
OY	351	CCTGGCTGTGGGCCCCGTGTGCTGCACCTGTCTTCTCATGTATGACCTTGAGCGGCA	410
Db	308	CCTGGCTGTGGGCCCCGTGTGCTGCACCTGTCTTCTCATGTATGACCTTGAGCGGCA	367
OY	411	GCGTCACCATCTCAACGCTGGCGCGCGGTCAACCTGGAGCGCATGTGTGCATCGTCAC	470
Db	368	GCGTCACCATCTCAACGCTGGCGCGCGGTCAACCTGGAGCGCATGTGTGCATCGTCAC	427
OY	471	TGCAGCGGGGCGTGTGGGGTCTGTGGGCGGGGCGCGGGGACGTGTGTGCGCTCATCT	530
Db	428	TGCAGCGGGGCGTGTGGGGTCTGTGGGCGGGGCGCGGGGACGTGTGTGCGCTCATAT	487
OY	531	GGGGCTATTCGCGCGGTGCGCGCTGTGCTCTCTGTGCTTCTTTTGAATGTGTCCGCAAC	590
Db	488	GGGGCTATTCGCGCGGTGCGCGCTGTGCTCTATGTGTCTTCTTCGAATGTGTCCGCAAC	547
OY	591	GCGTCCCCGGGCGCGACCAAGAAATTTGATTTTGACACTGATTTGGCGCCACATTTCTG	650
Db	548	GCGTCCCCGGGCGCGACCAAGAAATTTGATTTTGACACTGATTTGGCGCCACATTTCTG	607
OY	651	GAGAGATCTGCGGGATGTCTCTTTTGTATCTTTGAACCTTCTGTGGTGCACAGACTGTGCA	710
Db	608	GAGAGATCTGCGGGATGTCTCTTTTGTATCTTTGAACCTTCTGTGGTGCACAGACTGTGCA	667
OY	711	TTGTGATCAGTTACTCCAAAATTTTACAGATCACAAAGCATCAAGAAAGGCTCACGG	770
Db	668	TTGTGATCAGTTACTCCAAAATTTTACAGATCACAAAGCATCAAGAAAGGCTCACGG	727
OY	771	TAAGCTTGCGCTACTCGAGAGGCCACAGATTCGCGTGTCCGACGAGACTTTCGGGCTCT	830
Db	728	TAAGCTTGCGCTACTCGAGAGGCCACAGATTCGCGTGTCCGACGAGACTTTCGGGCTCT	787
OY	831	TCCGAGCCCTCTCTCTCTCATAGGTGTCTCTTCATCATATGAGAGCCCAATCATCA	890
Db	788	TCCGAGCCCTCTCTCTCTCATAGGTGTCTCTTCATCATATGAGAGCCCAATCATCA	847
OY	891	CCATCTCTCTCATCTGTATCCAAACTTCAAGCAGAAGCTGTGTCATCTGGCGGTCCCT	950
Db	848	CCATCTCTCTCATCTGTATCCAAACTTCAAGCAGAAGCTGTGTCATCTGGCGGTCCCT	907
OY	951	TCCTCTGGGTGTGGCTTCACTATTGTGTAATTCAGCCCTTAACCCCATCTTACAACA	1010
Db	908	TCCTCTGGGTGTGGCTTCACTATTGTGTAATTCAGCCCTTAACCCCATCTTACAACA	967
OY	1011	TGACACTGTGCAGAAATGATGTGAAGAAATTTTTTGTCTGCTTGTGTGTCCAGAAAGG	1070
Db	968	TGACACTGTGCAGAAATGATGTGAAGAAATTTTTTGTCTGCTTGTGTGTCCAGAAAGG	1027
OY	1071	GAGCATTTTTAAACAACAATCTGTCAAAAAGAAATGACTGTGCATTTATTTCTGGCTAA	1129
Db	1028	GAGCATTTTTAAACAACAATCTGTCAAAAAGAAATGACTGTGCATTTATTTCTGGCTAA	1086

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RESULT 14
US-09-995-225-7
/ Sequence 7, Application US/09995225
/ Publication No. US20030139588A9
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Ruoping
/ APPLICANT: Chu, Zhi Liang
/ APPLICANT: Dang, Huang T.
/ APPLICANT: Lowitz, Kevin P.
/ APPLICANT: Pride, Cameron
/ TITLE OF INVENTION: Endogenous And No. US20030139588A9-Endogenous Versions of Human G
/ TITLE OF INVENTION: Receptors
/ FILE REFERENCE: AREN-0308
/ CURRENT APPLICATION NUMBER: US/09/995,225
/ PRIOR FILING DATE: 2001-11-26
/ PRIOR APPLICATION NUMBER: 09/170,496
/ PRIOR FILING DATE: 1998-10-13
/ PRIOR APPLICATION NUMBER: PCT/US99/23938
/ PRIOR FILING DATE: 1998-10-13
/ PRIOR APPLICATION NUMBER: 60/253,404
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/255,366
/ PRIOR FILING DATE: 2000-12-12
/ PRIOR APPLICATION NUMBER: 60/270,286
/ PRIOR FILING DATE: 2001-02-20
/ PRIOR APPLICATION NUMBER: 60/282,365
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/270,266
/ PRIOR FILING DATE: 2001-02-20
/ PRIOR APPLICATION NUMBER: 60/282,032
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/282,358
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/282,356
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/290,917
/ PRIOR FILING DATE: 2001-05-14
/ PRIOR APPLICATION NUMBER: 60/309,208
/ PRIOR FILING DATE: 2001-07-31
/ NUMBER OF SEQ ID NOS: 67
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 7
/ LENGTH: 1086
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: No. US20030139588A9e1 Sequence
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Db	188	TGCTGTGTGGCGCGCGGAGACGCGCGCGGCGGAGCTGCTGCTGTGATCTCAACTCTTCT	247	
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Db	248	GCGGGAACCTGCTTTATACAGCGTATCCCTTGAGTGTGAGTGTGCGGTGCGGACTGAGG	307	



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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 30, 2004, 19:03:02 ; Search time 5921.2 Seconds

(without alignments)  
11419.163 Million cell updates/sec

Title: US-10-077-698-5

Perfect score: 1560

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Scoring table: OLIGO\_NUC  
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Searched: 3470272 seqs, 21671516995 residues

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Minimum DB seq length: 0

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and is derived by analysis of the total score distribution.

# SUMMARIES

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6	744	47.7	1086	10	BC053698
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DEFINITION 14273 receptor, a G-protein coupled receptor.  
ACCESSION  
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VERSION  
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KEYWORDS  
JP 2002522011-A/2.  
SOURCE  
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ORGANISM  
unclassified.  
REFERENCE  
1 (bases 1 to 1560)  
AUTHORS  
Glucksmann, M.A. and Tsai, F.Y.  
TITLE  
14273 receptor, a G-protein coupled receptor  
JOURNAL  
Patent: JP 2002522011-A 2 23-JUL-2002;  
MILENINIUM PHARMACEUTICALS INC

Pred. No. is the number of results predicted by chance to have a

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 PN JP 2002522011-A/2  
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 PF 30-JUN-1999 JP 2000557364  
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 26-FEB-1999 US 09/261599  
 PI MARIA ALEXANDRA GLUCKSMANN, FONG YING TSAI  
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 VERSION BD269631.1  
 KEYWORDS JP 2002536997-A/2.  
 SOURCE  
 ORGANISM Mus sp.  
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 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 1560)  
 Glucksmann, M.A. and Tsai, F.Y.  
 14273 receptor, a novel G-protein coupled receptor



## JOURNAL

Patent: JP 2002536997-A 2 05-NOV-2002;

## COMMENT

MILLENNIUM PHARMACEUTICALS INC  
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PN JP 2002536997-A/2  
PD 05-NOV-2002  
PR 28-FEB-2000 JP 2000601160  
PR 26-FEB-1999 US 09/261599, 08-DEC-1999 US 09/456455 P1  
MARIA ALEXANDRA GLUCKSMANN, PONG YING TSAI  
PC C12N15/09, C07K14/705, C07K16/28, C12N1/15, C12N1/19, C12N1/21, PC  
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 ORGANISM Unclassified.  
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 AUTHORS Glucksmann M.A. and Tsai F.-Y.  
 TITLE 14723 Receptor, a novel G-protein coupled receptor

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DB 781 TGAATTTGGCCCAACCGATAGAGAAATTCATAGGATGTGTGTGTGTGTGTGTGTGTGTGT 840
QY 841 TCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
DB 841 TCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
QY 901 CATGCGGAAGAGCTTAACGTGAGCTTGGCATCTGTGAGGCGACACAGATCCGAGTGT 960
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 DEFINITION Sequence 5 from patent US 6395877.  
 ACCESSION AR372102  
 VERSION AR372102.1 GI:34609379  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 1560)  
 AUTHORS Glucksmann, M.A. and Tsai, F.-Y.  
 TITLE 14273 receptor, a novel G-protein coupled receptor  
 JOURNAL Patent: US 6395877-A 5 28-MAY-2002;  
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 /mol\_type="genomic DNA"

## ORIGIN

Query Match 100.0%; Score 1560; DB 6; Length 1560;  
 Best Local Similarity 100.0%; Pred. No. 0;  
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QY 61 TTCAACCAATCAAGACCACTCCAGACTTGTCCGGCTTTTACCCGAATCTTCAAGCCGAG 120
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Db	1201	GCTTCTTTTTCAGAGAAGGAGCATTTTTAACAATACGTCTGCAGGGGAATGACT	1260
QY	1261	TGTCGTATTATCCAGCTAACTAAGCTCTGTGTCAGAGTGAAACCACCGTGTGATGTAAA	1320
Db	1261	TGTCGTATTATCCAGCTAACTAAGCTCTGTGTCAGAGTGAAACCACCGTGTGATGTAAA	1320
QY	1321	GGAGATTAACTTCAAGGAAAGCCACCAAGTGCCTTGTATAAATACCACCTTCCA	1380
Db	1321	GGAGATTAACTTCAAGGAAAGCCACCAAGTGCCTTGTATAAATACCACCTTCCA	1380
QY	1381	AACAGAGCATCTACGAGGACGACCAAAATTAAGAAATATGTCAGATATAAATATTTT	1440
Db	1381	AACAGAGCATCTACGAGGACGACCAAAATTAAGAAATATGTCAGATATAAATATTTT	1440
QY	1441	TCCTTAAGAACCTTCTATGGGTTCCCTTTTGTAACCTTTTTTAAGTGTGTTGTAATAT	1500
Db	1441	TCCTTAAGAACCTTCTATGGGTTCCCTTTTGTAACCTTTTTTAAGTGTGTTGTAATAT	1500
QY	1501	GATCTAGTATAAATTTTATTATTATTAACGTGTCTCTACAAAAAATTTTTTTTTTTT	1560
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LOCUS	BC053698	1419 bp	mRNA linear ROD 12-NOV-2003
DEFINITION	Mus musculus G protein-coupled receptor 120, mRNA (cDNA clone		
ACCESSION	MGCL62870 IMAGE:6529120), complete cds.		
VERSION	BC053698		
KEYWORDS	BC053698.1 GI:31566089		
SOURCE	MGC.		
ORGANISM	Mus musculus (house mouse)		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheraia; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
	1 (bases 1 to 1419)		
	Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,		
	Klausner, R.D., Collins, F.S., Wagner, L., Shennan, C.F., Schuler, G.D.,		
	Altschul, S.F., Zeeberg, B., Bluetow, K.H., Schaefer, C.F., Bhat, N.K.,		
	Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Heien, F.,		
	Datchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,		
	Stadlton, M., Soares, M.B., Bonaldi, U.F., Casavant, T.L.,		
	Scheetz, T.E., Brownstein, M.U., Uedtin, T.B., Tobhyuki, S.,		
	Carninci, P., Prange, C., Kana, S.S., Loquellano, N.A., Peters, G.J.,		
	Abrahamson, R.D., Mullany, S.J., Bosak, S.A., McEwan, P.J.,		
	McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,		
	Woley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Huljk, S.W.,		
	Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,		
	Faney, J., Helton, E., Kettelman, M., Madan, A., Rodrigues, S.,		
	Bonfield, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,		
	Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,		
	Butterfield, Y.S., Krzywinski, M.I., Skalski, U., Smatls, D.E.,		
	Schmurch, A., Schein, J.E., Jones, S.J., and Marra, M.A.		
TITLE	Generation and initial analysis of more than 15,000 full-length		
JOURNAL	human and mouse cDNA sequences		
MEDLINE	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)		
PUBMED	22388257		
REFERENCE	12477932		
AUTHORS	2 (bases 1 to 1419)		
TITLE	Strausberg, R.		
JOURNAL	Direct Submission		
COMMENT	Submitted (09-JUN-2003) National Institutes of Health, Mammalian		
	Gene Collection (MGC), Cancer Genomics Office, National Cancer		
	Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,		
	USA		
	NIH-MGC Project URL: http://mgc.ncl.nih.gov		
	Contact: MGC help desk		
	Email: gcgaps-remail.nih.gov		
	Tissue Procurement: Jeffrey E. Green, M.D.		

CDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
 DNA Sequencing by: National Institutes of Health Intramural  
 Sequencing Center (NISC),  
 Gaithersburg, Maryland;  
 Web site: <http://www.nisc.nih.gov/>  
 Contact: nisc\_mgc@hghri.nih.gov  
 Address: N. Ayle, K. Beckstrom-Sternberg, S.M., Benjamin, B.,  
 Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S.,  
 Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Haghighi, P.,  
 Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legaspi, R.,  
 Maduro, Q.L., Mastello, C., Maskeri, B., Mastrian, S.D., McCloskey, J.C.,  
 McDowell, J., Pearson, R., Stancilpop, S., Thomas, P.J., Touchman, J.W.,  
 Tsouroun, C., Vogt, J.L., Walker, M.A., Weherby, K.D., Wiggins, L.,  
 Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found  
 through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>  
 Series: IRAC Plate: 116 Row: n Column: 18.

## FEATURES

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## GENE

## misc\_feature

277. 1011  
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 Best Local Similarity 99.5%; Pred. No. 0;  
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QY 231 CCTCGACACCCCGGACCAAGTCAATCGACCCGACTTCCCTTCTCTCGGAGTGAAG 290  
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 DB 145 GGCACACACCGGTGTGTGAGCGTGTGAGAGACCAACCGTCTTGAGACTCATCTTTGTC 204  
 QY 351 GTCTCACTGCTGGGCAAGTGTGTCTTCTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 410  
 DB 205 GTCTCACTGCTGGGCAAGTGTGTCTTCTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 264  
 QY 411 GCGTCACACACCGGTGTGTGTCTCACTCTTCTGCGCGAGATTGCTTTCACAGAGGCATC 470  
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QY 471 CTTTATGTCGTCTGTGCGCTGGACTGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 530  
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 LOCUS AY288424  
 DEFINITION Mus musculus G protein-coupled receptor 120 (Gpr120) mRNA, complete

cds.  
 AY288424 GI:32165531  
 Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 1086)  
 Fredriksson, R., Hoglund, P. J., Giorlam, D. E., Lagerstrom, M. C. and  
 Schioth, H. B.  
 Seven evolutionarily conserved human rhodopsin G protein-coupled  
 receptors lacking close relatives  
 PNAS Lett. 554 (3), 381-388 (2003)  
 22985413  
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 2 (bases 1 to 1086)  
 Fredriksson, R., Hoglund, P. J., Giorlam, D. E., Lagerstrom, M. C. and  
 Schioth, H. B.  
 Direct Submission  
 Submitted (30-APR-2003) Neuroscience; Unit of Pharmacology, Uppsala  
 University, Box 593, Uppsala 75124, Sweden  
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ORIGIN

Query Match 47.7%; Score 744; DB 10; Length 1086;  
 Best local Similarity 99.4%; Pred. No. 0;  
 Matches 1044; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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 LOCUS Mus musculus BAC clone RP24-93G11 from chromosome 19, complete  
 DEFINITION  
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 AC112153.4 GI:34495034  
 VERSION  
 KEYWORDS  
 HTG.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 180944)  
 Tomlinson, C. and Haglund, K.  
 The sequence of Mus musculus BAC clone RP24-93G11  
 JOURNAL  
 Unpublished (2001)  
 REFERENCE  
 2 (bases 1 to 180944)  
 Willson, R.  
 TITLE  
 Sequencing of Mus musculus  
 JOURNAL  
 Unpublished (2001)  
 REFERENCE  
 3 (bases 1 to 180944)  
 McPherson, J. D. and Waterston, R. H.  
 TITLE  
 Direct Submission  
 JOURNAL  
 Submitted (19-FEB-2002) Genome Sequencing Center, 4444 Forest Park

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REFERENCE
AUTHORS    4 (bases 1 to 180944)
TITLE      Submitted (15-May-2003) Genome Sequencing Center, 4444 Forest Park
JOURNAL    Parkway, St. Louis, MO 63108, USA

REFERENCE
AUTHORS    5 (bases 1 to 180944)
TITLE      Wilson,R.K.
JOURNAL    Direct Submission
           Submitted (06-SEP-2003) Genome Sequencing Center, 4444 Forest Park
REFERENCE   Parkway, St. Louis, MO 63108, USA
AUTHORS     6 (basee 1 to 180944)
TITLE      Wilson,R.
JOURNAL    Direct Submission
           Submitted (27-NOV-2003) Department of Genetics, Washington
REFERENCE   University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
AUTHORS     On Sep 6, 2003 this sequence version replaced gi:30725984.
TITLE      ----- Genome Center
JOURNAL    ----- Washington University Genome Sequencing Center
COMMENT     Center code: MUGSC
           Web site: http://genome.wustl.edu
           Contact: submissions@watson.wustl.edu
           ----- Summary Statistics
           ----- Center project name: M_BB0093G11
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NOTICE: This sequence may not represent the entire insert of this
clone. It may be shorter because we only sequence overlapping
clone sections once, or longer because we provide a small overlap
between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. Wes Warren,
Department of Genetics, Washington University, St. Louis MO. For
additional information about the map position of this sequence, see
http://genome.wustl.edu

SOURCE INFORMATION:
The RPc1-24 BAC library has been constructed by Pieter de Jong and
coworkers (http://www.chori.org) from male C57BL/6J mouse spleen
and/or brain genomic DNA. The clone and detailed information can be
obtained from Pieter de Jong and coworkers at http://www.chori.org

NEIGHBORING SEQUENCE INFORMATION:
This sequence is the entire insert of the clone.
Location/Qualifiers
1..180944
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 /mol_type="genomic DNA"
 /db_xref="taxon:10090"
 /chromosome="19"
 /map="19"
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 /rpt_family="MIR"
 repeat_region 6494..6605
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 repeat_region 7102..7240
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Smit, A.F.A. & Green, P. (1996-1997)  
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>  
 ----- Genome Center  
 Center: Whitehead Institute/ MIT Center for Genome Research  
 Center code: WIBR  
 Web site: <http://www-seq.wi.mit.edu>  
 Contact: [sequence\\_submissions@genome.wi.mit.edu](mailto:sequence_submissions@genome.wi.mit.edu)  
 ----- Project Information  
 Center project name: 113J\_17  
 Center clone name: 113J\_17  
 ----- Summary Statistics  
 Sequencing vector: Plasmid; n/a; 100% of reads  
 Chemistry: Dye-terminator Big Dye; 100% of reads  
 Assembly program: Phrap; version 0.960731  
 Consensus quality: 233359 bases at least Q40  
 Consensus quality: 236645 bases at least Q30  
 Consensus quality: 236645 bases at least Q20  
 Insert size: 21000; agarose-fp  
 Insert size: 237818; sum-of-contigs  
 Quality coverage: 9.1 in Q20 bases; agarose-fp  
 Quality coverage: 8.1 in Q20 bases; sum-of-contigs  
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 \* NOTE: This is a 'working draft' sequence. It currently  
 \* consists of 20 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.  
 1  
 310 309: contig of 309 bp in length  
 410 309: gap of 100 bp  
 1477 1476: contig of 1067 bp in length  
 1577 1576: gap of 100 bp  
 2754 2753: contig of 1177 bp in length  
 2854 2853: gap of 100 bp  
 3880 3880: contig of 1027 bp in length  
 3981 3980: gap of 100 bp  
 5036 5036: contig of 1056 bp in length  
 5135 5135: gap of 100 bp  
 6296 6296: contig of 1160 bp in length  
 6397 6396: gap of 100 bp  
 7884 7884: contig of 1488 bp in length  
 7885 7884: gap of 100 bp  
 9674 9674: contig of 1690 bp in length  
 9775 9774: gap of 100 bp  
 10982 10981: contig of 1207 bp in length  
 11082 11081: gap of 100 bp  
 13248 13247: contig of 2166 bp in length  
 13348 13347: gap of 100 bp  
 16734 16734: contig of 3387 bp in length  
 16735 16834: gap of 100 bp  
 16835 22539: contig of 6705 bp in length  
 23540 23539: gap of 100 bp  
 23640 29386: contig of 5747 bp in length  
 29387 29486: gap of 100 bp  
 29487 43815: contig of 14329 bp in length  
 43816 43915: gap of 100 bp  
 43916 55354: contig of 11439 bp in length  
 55355 55454: gap of 100 bp  
 82497 82497: contig of 27043 bp in length  
 82498 82597: gap of 100 bp  
 109798 109798: contig of 27201 bp in length  
 109799 109898: gap of 100 bp  
 109899 181806: contig of 71908 bp in length  
 181807 181906: gap of 100 bp  
 213173 213173: contig of 31267 bp in length  
 213174 213273: gap of 100 bp  
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Matches 596; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 100558 CAGATTCGGAAGATCGCGAAGAGCTTACGCTGAGCATCTGTGAGGCAC 100617

QY 948 CAGATTCGGAAGATCGCGAAGAGCTTACGCTGAGCATCTGTGAGGCAC 1007
Db 100618 CAGATTCGGAAGATCGCGAAGAGCTTACGCTGAGCATCTGTGAGGCAC 100677

QY 1008 TCCTTCTTCATCATGTGAGTCCCATCATCATCAACATCTCTCATCTTGAATCAAAAC 1067
Db 100678 TCCTTCTTCATCATGTGAGTCCCATCATCATCAACATCTCTCATCTTGAATCAAAAC 100737

QY 1068 TTCGCGCAGAGCTGTGATCTGTGCGCATCTCTTTCTTGTGGGTGGGCTTACGTTT 1127
Db 100738 TTCGCGCAGAGCTGTGATCTGTGCGCATCTCTTTCTTGTGGGTGGGCTTACGTTT 100797

QY 1128 GCCAAGCTGCGCCCAAGCCCATCATGTACAAATGTCGCTTTCAGGAAGAAATGAGG 1187
Db 100798 GCCAAGCTGCGCCCAAGCCCATCATGTACAAATGTCGCTTTCAGGAAGAAATGAGG 100857

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QY 1188 AGATTTTGTGCTCTTTTCCAGAGAGGAGCATTTTACAGATAGCTGTG 1247
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DB 100918 AGCGGAATGACTTGTGTATTTCCAGACTAATAGCTTGTGCGCAGGTAACAGC 100977
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LOCUS AR228218 Sequence 14 from patent US 6448005.
DEFINITION AR228218
ACCESSION AR228218 GI:27266965
VERSION AR228218.1
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 181)
AUTHORS Gluckemann, M.A. and Tsai, F.-Y.
TITLE 14723 Receptor, a novel G-protein coupled receptor
JOURNAL Patent: US 6448005-A 14 10-SEP-2002;
FEATURES
SOURCE 1.181
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ORIGIN
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Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1021 TGTGAGTCCCATCATCATCAACCATCTCTCATCTTGATCCAAACTCCGAGAGCC 1080
DB 1 TGTGAGTCCCATCATCATCAACCATCTCTCATCTTGATCCAAACTCCGAGAGACC 60
QY 1081 TGTGATCTGGCCATCCCTTTCTTCTGGGTGGTGGCTTACGTTTGGCAACTTGGCCC 1140
DB 61 TGTGATCTGGCCATCCCTTTCTTCTGGGTGGTGGCTTACGTTTGGCAACTTGGCCC 120
QY 1141 TAAACCCCATCTGTCACATATGCTGTTTCAAGAAAGATGAGAGAAATTTTGTCT 1200
DB 121 TAAACCCCATCTGTCACATATGCTGTTTCAAGAAAGATGAGAGAAATTTTGTCT 180
QY 1201 G 1201
DB 181 G 181

RESULT 10
AR228219 138 bp DNA linear PAT 20-DEC-2002
LOCUS AR228219 Sequence 15 from patent US 6448005.
DEFINITION AR228219
ACCESSION AR228219 GI:27266966
VERSION AR228219.1
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 138)

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AUTHORS Gluckemann, M.A. and Tsai, F.-Y.
TITLE 14723 Receptor, a novel G-protein coupled receptor
JOURNAL Patent: US 6448005-A 15 10-SEP-2002;
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Matches 138; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 969 GACTACCGACTTCCGACGCTCTTCTGCTCATGAGTTTCTTTCATCATGATGAGT 1028
DB 61 GACTACCGACTTCCGACGCTCTTCTGCTCATGAGTTTCTTTCATCATGATGAGT 120

QY 1029 CCCATCATCATCAACCATC 1046
DB 121 CCCATCATCATCAACCATC 138

RESULT 11
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LOCUS BC049237/c Mus musculus electron transferring flavoprotein, beta polypeptide,
DEFINITION BC049237.1 GI:29351580
ACCESSION BC049237.1
VERSION BC049237.1
KEYWORDS MGC.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 835)
AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buelow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
Diatchenko, U., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Sapichenko, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Schaefer, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loughran, N.A., Peters, G.J.,
Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hu, X., Gibbs, R.A.,
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Fahy, J.J., Helton, E., Kettman, M., Madan, A., Rodriguez, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalske, U., Smal, D.E.,
Scherer, A., Schein, J.E., Jones, S.J., and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
22386257
JOURNAL MEDLINE
PUBMED 12477932
REFERENCE 2 (bases 1 to 835)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (21-MAR-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA

NIH-MGC Project URL: http://mgc.ncl.nih.gov
Contact: MGC help desk
Email: cga@nci.nih.gov
Tissue Procurement: Jeffrey E. Green, M.D.
REMARK COMMENT

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cDNA Library Preparation: Life Technologies, Inc.  
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
 DNA Sequencing by: National Institutes of Health Intramural  
 Sequencing Center (NISC),  
 Gaithersburg, Maryland;  
 Web site: <http://www.nisc.nih.gov/>  
 Contact: [nisc.mcgmhgrl.nih.gov](mailto:nisc.mcgmhgrl.nih.gov)  
 Akhner, N., Aytele, K., Beckstrom-Sternberg, S. M., Benjamin, B.,  
 Blakesley, R. W., Bouffard, G. G., Breen, K., Brinkley, C., Brooks, S.,  
 Dietrich, N. L., Granite, S., Guan, X., Gupta, J., Haghighi, P.,  
 Hansen, N., Ho, S. L., Karlins, E., Khong, P., Latic, P., Legaspi, R.,  
 Madeno, Q. L., Masiello, C., Maskeri, B., Mastrian, S. D., McCloskey, J. C.,  
 McDowell, J., Pearson, R., Stantirlop, S., Thomas, P. J., Touchman, J. W.,  
 Tsoung, C., Vogt, J. L., Walker, M. A., Wetherby, K. D., Wiggins, L.,  
 Young, A., Zhang, L.-H. and Green, E. D.

Clone distribution: MCC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <http://image.lnl.gov>  
 Series: IRK Plate: 99 Row: c Column: 22  
 This clone was selected for full length sequencing because it passed the following selection criteria: Similarly but not identically to protein.

FEATURES	Location/Qualifiers
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# ORIGIN

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Matches 151;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;

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Db	

AC123550/c	LOCUS	AC123550	169206 bp	DNA	linear	ROD 27-NOV-2003
DEFINITION		Mus musculus BAC clone RP24-289C13	from chromosome 7, complete sequence.			
ACCESSION		AC123550				
VERSION		AC123550.5	GI:30985125			
KEYWORDS		HTG.				
SOURCE		Mus musculus (house mouse)				
ORGANISM		Mus musculus				
REFERENCE		Bkaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
AUTHORS		1 (bases 1 to 169206)				
TITLE		Bielski, J.				
JOURNAL		The sequence of Mus musculus BAC clone RP24-289C13				
REFERENCE		Unpublished (2001)				
AUTHORS		2 (bases 1 to 169206)				
TITLE		Wilson, R.				
JOURNAL		Sequencing of Mus musculus				
REFERENCE		Unpublished (2001)				
AUTHORS		3 (bases 1 to 169206)				
TITLE		McPherson, J.D. and Waterston, R.H.				
JOURNAL		Direct Submission				
REFERENCE		Submitted (30-MAY-2002) Genome Sequencing Center, 4444 Forest Park				
AUTHORS		4 (bases 1 to 169206)				
TITLE		McPherson, J.D. and Waterston, R.H.				
JOURNAL		Direct Submission				
REFERENCE		Submitted (07-JUN-2003) Genome Sequencing Center, 4444 Forest Park				
AUTHORS		5 (bases 1 to 169206)				
TITLE		Parkway, St. Louis, MO 63108, USA				
JOURNAL		Submitted (07-JUN-2003) Genome Sequencing Center, 4444 Forest Park				
REFERENCE		5 (bases 1 to 169206)				
AUTHORS		Wilson, R.K.				
TITLE		Direct Submission				
JOURNAL		Submitted (22-MAY-2003) Genome Sequencing Center, 4444 Forest Park				
REFERENCE		6 (bases 1 to 169206)				
AUTHORS		Parkway, St. Louis, MO 63108, USA				
TITLE		Submitted (22-MAY-2003) Genome Sequencing Center, 4444 Forest Park				
JOURNAL		Submitted (22-MAY-2003) Genome Sequencing Center, 4444 Forest Park				
REFERENCE		6 (bases 1 to 169206)				
AUTHORS		Wilson, R.				
TITLE		Direct Submission				
JOURNAL		Submitted (27-NOV-2003) Department of Genetics, Washington				
REFERENCE		University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA				
COMMENT		On May 22, 2003 this sequence version replaced gi:27531875.				

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

**MAPPING INFORMATION:**  
Mapping information for this clone was provided by Dr. Wes Warren, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu>

**SOURCE INFORMATION:**  
The RPCL-24 BAC library has been constructed by Pieter de Jong and coworkers (<http://www.chori.org>) from male C57BL/6J mouse spleen and/or brain genomic DNA. The clone and detailed information can be obtained from Pieter de Jong and coworkers at <http://www.chori.org>

# NEIGHBORING SEQUENCE INFORMATION: This sequence is the entire insert of the clone.

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Matches 92; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 80518 AGCCTCTTCACATGCAATCTCAGAGAGGGCTTCATGAGATGCTTACACATCAGTGAC 80459  
QY 78 CACTCCAGACTTGCCGGCTTTACCCGAACTCT 109  
DB 80458 CACTCCAGACTTGCCGGCTTTACCCGAACTCT 80427

RESULT 13  
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LOCUS AC079543  
DEFINITION Mus musculus clone RP23-381P16, WORKING DRAFT SEQUENCE, 67

unordered pieces.  
AC079543  
AC079543.1 GI:9964908  
HTG; HTGS\_PHASE1; HTGS\_DRAFT.  
KEYWORDS  
Mus musculus (house mouse)  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT  
Center: Joint Genome Institute  
Center Code: JGI  
Web site: <http://www.jgi.doe.gov>  
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Project Information  
Center Project Name: 1883552  
Center clone name: RPCI-23\_381P16  
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Summary Statistics  
Consensus quality: 224010 bases at least Q40  
Consensus quality: 249280 bases at least Q30  
Consensus quality: 255396 bases at least Q20  
Estimated insert size: 271000; agarose-fp estimation  
Estimated insert size: 271003; sum-of-contigs estimation  
Quality coverage: 6.92 in Q20 bases; agarose-fp estimation  
Quality coverage: 4.39 in Q20 bases; sum-of-contigs estimation.  
NOTE: This is a 'working draft' sequence. It currently  
\* consists of 67 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.  
1  
1043: contig of 1043 bp in length  
1044  
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2187: contig of 1044 bp in length  
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2287: gap of unknown length  
2288  
3468: contig of 1181 bp in length  
3469  
3568: gap of unknown length  
3569  
4840: contig of 1272 bp in length  
4841  
4940: gap of unknown length  
4941  
6012: contig of 1072 bp in length  
6013  
6112: gap of unknown length  
6113  
7304: contig of 1192 bp in length  
7305  
7404: gap of unknown length  
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8702: contig of 1298 bp in length  
8703  
8802: gap of unknown length  
8803  
10001: contig of 1199 bp in length  
10002  
10101: gap of unknown length  
10102  
11249: contig of 1148 bp in length  
11250  
11349: gap of unknown length  
11350  
12629: contig of 1280 bp in length  
12630  
12729: gap of unknown length  
12730  
13745: gap of unknown length  
13746  
14045: gap of unknown length  
14046  
15833: contig of 1788 bp in length  
15834  
15933: gap of unknown length  
15934  
17862: contig of 1929 bp in length  
17863  
17962: gap of unknown length  
17963  
18991: contig of 1029 bp in length  
18992  
19091: gap of unknown length  
19092  
20998: contig of 1807 bp in length  
20999  
20998  
20999  
22832: contig of 1834 bp in length

22833  
22933  
22932: gap of unknown length  
22933  
24144: contig of 1212 bp in length  
24145  
24244: gap of unknown length  
24245  
25669: contig of 1425 bp in length  
25670  
25770  
25769: gap of unknown length  
25770  
27239: contig of 1470 bp in length  
27240  
27339: gap of unknown length  
27340  
28790: contig of 1451 bp in length  
28791  
28890: gap of unknown length  
28891  
30106: contig of 1216 bp in length  
30107  
30206: gap of unknown length  
30207  
31602: contig of 1396 bp in length  
31603  
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31703  
32867: contig of 1165 bp in length  
32868  
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32968  
34416: contig of 1449 bp in length  
34417  
34516: gap of unknown length  
34517  
35577: contig of 1061 bp in length  
35578  
35677: gap of unknown length  
35678  
37248: contig of 1571 bp in length  
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37349  
38610: contig of 1262 bp in length  
38611  
38710: gap of unknown length  
38711  
40389: contig of 1679 bp in length  
40390  
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40490  
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41594  
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44778  
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46541  
48609: contig of 2069 bp in length  
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49996  
51506: contig of 1511 bp in length  
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51607  
53008: contig of 1402 bp in length  
53009  
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53109  
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55141  
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55241  
57760: contig of 2520 bp in length  
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64891: contig of 2416 bp in length  
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64992  
67699: contig of 2708 bp in length  
67799: gap of unknown length  
67800  
69624: contig of 1825 bp in length  
69625  
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69725  
71722: contig of 1998 bp in length  
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75173  
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77257  
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81822  
86203: contig of 4382 bp in length  
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86304  
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92048  
92147: gap of unknown length  
92148  
95857: contig of 3710 bp in length  
95858  
95957: gap of unknown length  
95958  
97555: contig of 3798 bp in length  
97556  
99755: gap of unknown length  
99756  
99855: gap of unknown length



\* consists of 8 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.

1 13733: contig of 13733 bp in length  
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 \* 202133: contig of 188300 bp in length  
 \* 202134 202233: gap of unknown length  
 \* 202234 205371: contig of 3138 bp in length  
 \* 205372 205471: gap of unknown length  
 \* 205472 206631: contig of 1160 bp in length  
 \* 206632 206731: gap of unknown length  
 \* 206732 207869: contig of 1138 bp in length  
 \* 207870 207969: gap of unknown length  
 \* 207970 209084: contig of 1115 bp in length  
 \* 209085 209184: gap of unknown length  
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ORIGIN

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 Db 114483 ACGCTCTTCGCTCATGATGTTCTTCATCATGATGAGTCCCATCATCATCAGCATC 114542  
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Db 114543 CTCTCATCTTGTATCCA 114559  
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RESULT 15  
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 AC107608  
 AC107608.6 GI:33342287  
 HTG.  
 Rattus norvegicus (Norway rat)  
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 Holt, R.A., Smith, H.O., Weinstein, G. and Gibbs, R.A.

Direct Submission  
 Unpublished  
 2 (bases 1 to 225030)  
 Worley, K.C.  
 Direct Submission  
 Submitted (23-JAN-2002) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 3 (bases 1 to 225030)  
 Rat Genome Sequencing Consortium.  
 Direct Submission  
 Submitted (19-NOV-2002) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 4 (bases 1 to 225030)  
 Worley, K.C.  
 Direct Submission  
 Submitted (30-JUL-2003) Human Genome Sequencing Center, Department  
 of Molecular and Human Genetics, Baylor College of Medicine, One  
 Baylor Plaza, Houston, TX 77030, USA  
 On Jul 30, 2003 this sequence version replaced gi:25072936.  
 Sequencing is completed to a minimum standard of double strand  
 coverage with a minimum of 2 clones and 2 reads with no ambiguities  
 or 2 chemistries with a minimum of 2 clones and 3 reads with no  
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Location/Qualifiers  
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Best Local Similarity 100.0%; Pred. No. 1,1e-32;
Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      142982  ACGCTCTTCGCTCATGATGTTTCCTTCATCATGATGAGTCCATCATCATCACCATC 143041

QY      1047  CTCTCATCTTGATCCA 1063
          |||||
DB      143042  CTCTCATCTTGATCCA 143058

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Search completed: October 1, 2004, 01:42:01  
Job time : 5927.2 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 30, 2004, 19:01:32 ; Search time 569.119 Seconds  
(without alignments)  
11644.646 Million cell updates/sec

Title: US-10-077-698-5

Sequence: 1 ttcgccagctccagcgtacg.....aaaaaaaaaaaaaaaa 1560

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 3373863 seqs, 2124099041 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

- Database : N\_Geneseq\_29Jan04:\*
- 1: geneseqn19808:\*
  - 2: geneseqn19908:\*
  - 3: geneseqn20008:\*
  - 4: geneseqn20018:\*
  - 5: geneseqn20018:\*
  - 6: geneseqn20028:\*
  - 7: geneseqn20038:\*
  - 8: geneseqn20038:\*
  - 9: geneseqn20038:\*
  - 10: geneseqn20048:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1560	100.0	1560	3	AA64347 DNA encod
2	1560	100.0	1560	6	ABQ81227 Mouse 142
3	1212	77.7	1561	3	AA249746 Murine 14
4	180	11.5	180	3	AA64344 Probe for
5	138	8.8	138	3	AA64345 Probe for
6	44	2.8	1086	6	ABT04869 Human G P
7	44	2.8	1086	6	ABST73398 DNA encod
8	44	2.8	1086	6	ABST73399 DNA encod
9	44	2.8	1086	6	ABST73343 CDNA enco
10	44	2.8	1086	7	ACA60998 CDNA enco
11	44	2.8	1086	8	ADB47641 Human cDN
12	44	2.8	1160	7	ABX10627 Human cDN
13	44	2.8	1321	4	AAD08854 Human G-P
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15	44	2.8	1737	7	ABZ42599 Human G P
16	44	2.8	1742	3	AAZ49745 Human 142
17	44	2.8	1743	3	AA64346 DNA encod
18	44	2.8	1743	6	ABQ81226 Human 142
19	44	2.7	933	9	ADC12755 Human GPC
20	40	2.6	1066	9	ADC87012 Human GPC
21	40	2.6	1104	4	AA642815 Human G P
22	40	2.6	3173	4	AA642815 Human G P
23	39	2.5	638	6	AA642901 Human G P

24	38	2.4	241	3	AA280388 Human col
25	38	2.4	459	8	ACH44239 Human foe
26	38	2.4	472	8	ACH40136 Human foe
27	38	2.4	487	3	AAC02281 Human sec
28	38	2.4	489	8	ACH45264 Human foe
29	38	2.4	490	8	ACH13024 Human adu
30	38	2.4	500	5	ABV60845 Human pro
31	38	2.4	517	8	ACH43949 Human foe
32	38	2.4	762	2	AA339905 Gastric c
33	38	2.4	768	6	ABL39413 Human ele
34	38	2.4	813	2	AA339904 Gastric c
35	38	2.4	912	5	AA570364 DNA encod
36	38	2.4	919	3	AAC98786 Human pan
37	38	2.4	930	5	AA570067 DNA encod
38	38	2.4	1281	7	ADA52753 Human cod
39	38	2.4	2631	5	AA564404 DNA encod
40	38	2.4	2922	6	ABL39412 Human ele
41	29	1.9	469	8	ACH45354 Human foe
42	28	1.8	445	8	ACH34462 Human end
43	28	1.8	459	8	ACH28569 Human adu
44	28	1.8	1291	3	AAC67666 Human sec
45	27	1.7	27	6	ABQ81230 Mouse 142

ALIGNMENTS

RESULT 1  
AA64347  
ID AA64347 standard; DNA; 1560 BP.  
XX  
AC AA64347;  
XX  
DT 20-DEC-2000 (first entry)  
XX  
DE DNA encoding a murine G-protein coupled receptor designated 14273.  
XX  
KW Mouse; G-protein coupled receptor; receptor-mediated disorder;  
KW 14273 receptor; cardiovascular disease; congestive heart failure;  
KW cardiac myocyte hypertrophy; ss.  
XX  
OS Mus sp.  
XX  
FH Key Location/Qualifiers  
FT CDS 195..1280  
FT FT /\*tag= a  
FT FT /product= "G-protein coupled receptor 14273"  
XX  
XX  
XX W0200050596-A2.  
XX  
XX 31-AUG-2000.  
XX  
XX 28-FEB-2000; 2000MO-US005068.  
XX  
XX 26-FEB-1999; 99US-00261599.  
XX 08-DEC-1999; 99US-00456455.  
XX  
XX (MILL-) MILLENIUM PHARM INC.  
XX  
XX PI Gluckemann MA, Tsai F;  
XX WPI; 2000-587184/55.  
XX DR P-PSDB; AAB08539.  
XX  
XX 14273 receptor polynucleotides and polypeptides, useful in the diagnosis  
XX PT and treatment of receptor-mediated disorders such as cardiovascular  
XX PT diseases.  
XX  
XX Claim 3; Fig 7; 105bp; English.  
XX  
XX The present sequence encodes a murine G-protein coupled receptor,  
XX CC designated 14273 receptor. The G-protein coupled receptor 14273  
XX CC polypeptide is used to produce antibodies, in drug screening assays, and

CC to screen for agonist and antagonists. The antibodies are used for  
 CC diagnostic applications, and to assess abnormal tissue distributions or  
 CC abnormal expression during development. The antibodies are also useful  
 CC for tissue typing, and in forensic identification, as well as for  
 CC inhibiting receptor function. The 14273 polynucleotides can be used to  
 CC in the 14273 gene, and as a source of primers and probes. The 14273  
 CC polynucleotides and polypeptides are also useful as a target for  
 CC diagnosis and treatment of receptor-mediated disorders, especially  
 CC cardiovascular diseases such as congestive heart failure caused by  
 CC cardiac myocyte hypertrophy

XX Sequence 1560 BP; 321 A; 449 C; 390 G; 400 T; 0 U; 0 Other;

Query Match 100.0%; Score 1560; DB 3; Length 1560;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1560; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 181 GCGGGGCGCGGCGATGCTCCCTGAGTGTGACAGAGAGCGGCGCTGATCCCTGACCA 240
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DB 601 GCATGTGTGTGATGTGCGCTCCGCGCGGCTTGAAGCGCGCGGCGCGGAGTCAAG 660
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DB 1141 TAAACCCCATATCTGTACAAATGTCGCTTTCAGAGAAAGATGAGAGAAATTTTGT 1200
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# RESULT 2

AB081227 standard; cDNA; 1560 BP.

AB081227;

05-DEC-2002 (first entry)

Mouse 14273 nucleic acid, associated with metabolic disorder.

Mouse; 14273; metabolic disorder; obesity; diabetes; anorexia; cachexia; anorectic; antidiabetic; anabolic; transgenic animal; gene therapy; gene;

ss.

Mus musculus.

Location/Qualifiers

195..1280

/tag= a

/product= "14273"

W0200267868-A2.

PD 06-SEP-2002.  
 XX 26-FEB-2002; 2002WO-US006131.  
 PF 26-FEB-2001; 2001US-0271655P.  
 XX (MILL-) MILLENNIUM PHARM INC.  
 PA Glmeno R, Tsai F;  
 XX WPI: 2002-698629/75.  
 DR P-PSDB; ABB79907.  
 XX  
 PT Identifying a nucleic acid associated with a metabolic disorder, useful  
 PT for diagnosing metabolic disorders, e.g. obesity, comprises contacting  
 PT the sample with a probe comprising at least 25 contiguous nucleotides of  
 PT the 14273 gene.  
 XX  
 PS Claim 1; Fig 2; 95pp; English.  
 CC The present sequence is that of a murine nucleic acid, designated 14273,  
 CC associated with metabolic disorders. 14273 molecules are expressed at  
 CC high levels in adipose tissue, e.g. white adipose tissue and brown  
 CC adipose tissue, as well as in pancreatic islets. They are upregulated  
 CC during exposure to cold (i.e. under conditions that affect brown or white  
 CC adipocyte metabolism) and downregulated in genetic models of obesity.  
 CC 14273 knock-out mice, when fed a high-fat diet, gain more weight and have  
 CC larger epididymal fat pads than wild-type mice. They also show increased  
 CC levels of glucose and insulin upon fasting. A 14273 agonist may be  
 CC beneficial to the treatment of obesity and/or type II diabetes by  
 CC preventing fat accumulation on a high-fat diet and/or the increases in  
 CC endogenous glucose production which occur in type II diabetes. The  
 CC present invention provides 14273 nucleic acids, polypeptides and  
 CC antibodies useful for the diagnosis and treatment of metabolic disorders  
 CC including obesity, anorexia, cachexia and diabetes. Also provided are  
 CC methods for identifying a subject having a metabolic disorder, for  
 CC identifying a compound capable of modulating metabolic activity, for  
 CC for modulating metabolic activity or adipocyte activity (hyperlaetic  
 CC growth, hypertrophic growth or lipogenesis), methods for modulating  
 CC lipogenesis or lipolysis in a subject, and a method for regulating  
 CC endogenous glucose levels  
 CC  
 SO Sequence 1560 BP; 321 A; 449 C; 390 G; 400 T; 0 U; 0 Other;  
 Query Match 100.0%; Score 1560; DB 6; Length 1560;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1560; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 361 TGGGCAACGTGTGTCTCTAGTGTGTGCGGCGCCGCTGGGCGCGCTGACCA 420  
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 DB 481 TCGTCGTGCGCTGACCTGAGGCGCTGTGGGGCCCGTGTGCACTGCTCTTCT 540  
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 DB 1321 GGGAGTTAACTTCAAGGAAAGCCACAGATGCGCTCTTTAAATAACCCGACTTCA 1380  
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 DB 1381 ACGACAGGCACTTAAGGAGCCAGCAATTAAGAAATGATGCTCAAGTATATAATTTT 1440  
 QY 1441 TCTTTAAAGAACTTTTATGAGTCTTTTGTGAATTTTAAAGTGTGTAATAT 1500

Db	1441	1CCTTAAAGAAACCTTCATAGGGCTTCCTTTGTGTGAACCTTTTAAAGTGTGTTGAATAT	1560
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Db	1501	GATCTAGTTAAATAAATTTTATTTATTTATTAACGTGTTCTCTACAAAAAAAAAAAAAAAAAAAA	1560
RESULT 3			
ID	AAZ49746	standard; cDNA, 1561 BP.	
AC	AAZ49746;		
XX	02-MAY-2000	(first entry)	
DE	Murine 14273 G-protein coupled receptor (GPCR) encoding cDNA.		
XX			
KW	G-protein coupled receptor; GPCR; 14273 receptor; mouse; somatostatin;		
KW	cellular function/activity; melanin receptor; chemokine receptor;		
KW	diagnosis; treatment; receptor-mediated disorder; screening; ss.		
XX			
OS	Mus sp.		
FH	Key	Location/Qualifiers	
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FT		/product= "Murine 14273 G-Protein coupled receptor"	
FT		/note= "Ortholog of human 14273 GPCR"	
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PN	WO200000611-A2.		
PD	06-JAN-2000.		
XX			
PF	30-JUN-1999;	99WO-US014842.	
XX			
PR	30-JUN-1998;	98US-00107761.	
PR	30-DEC-1998;	98US-00223538.	
PR	26-FEB-1999;	99US-00261599.	
XX			
PA	(MILL-) MILLENNIUM PHARM INC.		
XX			
P1	Glucksmann MA, Tsai F;		
XX			
DR	WPI; 2000-147268/13.		
XX	P-PSDB; AAV44663.		
FT	Novel G-protein coupled receptor 14273 polynucleotides and polypeptides		
PT	used as a target for diagnosis and treatment of receptor-mediated		
PT	disorders.		
XX			
PS	Claim 3a; Fig 7; 89pp; English.		
CC	The present sequence is the cDNA encoding mouse G-protein coupled		
CC	receptor (GPCR) 14273 protein, an ortholog of human 14273 GPCR. It is		
CC	involved in modulation of a cellular function or activity upon binding of		
CC	a ligand to the GPCR. The GPCR 14273 protein has homology to galanin		
CC	receptor, chemokine receptor and somatostatin. GPCR 14273 sequences are		
CC	useful as a target for diagnosis and treatment of receptor-mediated		
CC	disorders. The polypeptide is used for screening of drugs, agonist,		
CC	antagonists and to produce antibodies. The antibodies are used for		
CC	diagnosis, to assess abnormal tissue distribution or expression during		
CC	development, inhibiting receptor function, tissue typing and forensic		
CC	identification. The DNA sequences are used to detect genetic alterations		
CC	in the gene and as a source of primers and probes		
XX			
Q0	Sequence 1561 BP; 321 A; 453 C; 386 G; 400 T; 0 U; 1 Other;		

Query Match		77.7%	Score 1212	DB 3	Length 1561	
Best Local Similarity		99.7%	Pred. No. 0	Mismatches	5	Indels
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QY		61	TTCAACCATTCAGTACGCACTCCAGACTTGTCCGGCTTTTAAACCGAATCTTTCACAGCGAG	120		
Db		61	TTCAACCATTCAGTACGCACTCCAGACTTGTCCGGCTTTTAAACCGAATCTTTCACAGCGAG	120		
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QY		481	TCTGTCTGTGCGTGGACCTGAGAGCGCTGTGTGGGGCCCGGTGTGTGCCACTGTCTTCT	540		
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QY		781	TGATTTGGCCCAACCGGATAGAGAAATCTCATGGATGTGTTTTGTGAGACTTTGAACT	840		
Db		781	TGATTTGGCCCAACCGGATAGAGAAATCTCATGGATGTGTTTTGTGAGACTTTGAACT	840		
QY		841	TCTGTGTGCCGGGACTGTGATCTGTGATCACTTCAAAATTTTACAGATCAAGAAAG	900		
Db		841	TCTGTGTGCCGGGACTGTGATCTGTGATCACTTCAAAATTTTACAGATCAAGAAAG	900		
QY		901	CATGCGGAAAGGCTTAACGTGAGCTTTGGCATPCTTGAAGGACACACAGATCCGAGGT	960		
Db		901	CATGCGGAAAGGCTTAACGTGAGCTTTGGCATPCTTGAAGGACACACAGATCCGAGGT	960		
QY		961	CCCAACAAGACTACGCACTCTTCCGAGCGGCTCTCCGTGCATAGTTTCCCTTTCATCA	1020		
Db		961	CCCAACAAGACTACGCACTCTTCCGAGCGGCTCTCCGTGCATAGTTTCCCTTTCATCA	1020		
QY		1021	TGTGGAGTCCCATCATCATCACTCTCTCTCATCTTGATCAAAATTTCCGCGAGGACC	1080		







KM nototropic; neuroprotective; antiparkinsonian; antidiabetic;  
 KM antidepressant; hypotensive; tranquilizer; nephrotropic;  
 KM cell growth disorder; neurological condition; pituitary gland disorder;  
 KM colon disorder; breast disorder; lung disorder; prostate disorder;  
 KM Alzheimer's disease; Parkinson's disease; diabetes; dwarfism;  
 KM colour blindness; retinal pigmentosa; asthma; depression; schizophrenia;  
 KM sleeplessness; hypertension; anxiety; stress; renal failure; gene; ss.  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 1..1083  
 FT /tag= a  
 FT /product= "HGPRBMV18"  
 FT /note= "Human G protein coupled receptor"  
 XX  
 PN US2003022186-A1.  
 XX  
 PD 30-JAN-2003.  
 PF 14-NOV-2001; 2001US-00992331.  
 XX  
 PR 14-NOV-2000; 2000US-0248483P.  
 PR 16-JAN-2001; 2001US-0261782P.  
 PR 27-JUL-2001; 2001US-0308540P.  
 XX  
 PA (FEDE/) FEDER J N.  
 PA (MINT/) MINTIER G.  
 PA (RAMA/) RAMANATHAN C S.  
 XX  
 PI Feder JN, Mintier G, Ramanathan CS;  
 XX  
 DR WPI: 2003-416985/39.  
 DR P-PSDB; ABU09715.  
 XX  
 PT New isolated human GPCR, HGPRBMV18, polynucleotide and polypeptide,  
 PT useful for treating, diagnosing and preventing disorders such as cancer,  
 PT neurological conditions, and diseases of the pituitary gland, colon,  
 PT breast and lungs.  
 XX  
 PS Claim 1; Fig 1; 66pp; English.  
 XX  
 CC The invention describes a new isolated polynucleotide encoding a human G-  
 CC protein coupled receptor (GPCR) or its functional fragment. The methods  
 CC and compositions of the present invention are useful for treating,  
 CC diagnosing, preventing and screening disorders associated with aberrant  
 CC cell growth, neurological conditions, and diseases related to the  
 CC pituitary gland, colon, breast, lungs and prostate. These disorders  
 CC include Alzheimer's, Parkinson, diabetes, dwarfism, colour blindness,  
 CC retinal pigmentosa, asthma, depression, schizophrenia, sleeplessness,  
 CC hypertension, anxiety, stress and renal failure. This sequence encodes  
 CC novel human G protein coupled receptor HGPRBMV18  
 XX  
 SQ Sequence 1086 BP; 182 A; 349 C; 295 G; 260 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 44; DB 7; Length 1086;  
 Best Local Similarity 100.0%; Pred. No. 4.6e-08;  
 Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 852 GGAAGTGGTCAATGGATGAGTACTCCAAATTTTACAGATCAC 895  
 Db 658 GGAAGTGGTCAATGGATGAGTACTCCAAATTTTACAGATCAC 701  
 RESULT 11  
 ADB47641 standard; cDNA; 1086 BP.  
 AC ADB47641;  
 XX  
 DT 04-DEC-2003 (first entry)  
 XX  
 DE Human cDNA encoding GPCR, HGPRBMV18.

XX  
 KM Human; ss; gene; G protein-coupled receptor; GPCR; endocrine disorder;  
 KM pituitary disorder; growth hormone; prolactin; luteinising hormone;  
 KM follicle-stimulating hormone; thyroid-stimulating hormone;  
 KM adrenocorticotropin; vasopressin; oxytocin; aberrant growth;  
 KM aberrant lactation; aberrant sexual characteristic development;  
 KM testosterone; oestrogen; aberrant water homeostasis; hypogonadism;  
 KM Addison's disease; hypothyroidism; Cushing's disease; acromegaly;  
 KM gigantism; lethargy; osteoporosis; aberrant calcium homeostasis;  
 KM aberrant potassium homeostasis; reproductive disorder;  
 KM developmental disorder; colon cancer; breast cancer; prostate cancer;  
 KM lung cancer.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 1..1086  
 FT /tag= b  
 FT /product= "HGPRBMV18"  
 FT /transl\_except= (pos:364..372,aa:Gly-Val)  
 FT misc\_feature 1..1083  
 FT /tag= a  
 FT /note= "Claimed in claim 1"  
 FT misc\_feature 4..1083  
 FT /tag= c  
 FT /note= "Claimed in claim 1"  
 XX  
 PN US2003129653-A1.  
 XX  
 PD 10-JUL-2003.  
 PF 30-SEP-2002; 2002US-00262313.  
 XX  
 PR 16-JAN-2001; 2001US-0261782P.  
 PR 27-JUL-2001; 2001US-0308540P.  
 PR 14-NOV-2001; 2001US-00992331.  
 XX  
 PA (FEDE/) FEDER J N.  
 PA (MINT/) MINTIER G.  
 PA (RAMA/) RAMANATHAN C S.  
 PA (HAWK/) HAWKEN D R.  
 XX  
 PI Feder JN, Mintier G, Ramanathan CS, Hawken DR;  
 XX  
 DR WPI: 2003-678603/64.  
 DR P-PSDB; ADB47642.  
 XX  
 PT New human G-protein coupled receptor, HGPRBMV18, useful for treating and  
 PT diagnosing disease such as cancer, hypothyroidism, Cushing's disease and  
 PT osteoporosis.  
 XX  
 PS Claim 1; Fig 1; 71pp; English.  
 XX  
 CC The invention relate to an isolated human G protein-coupled receptor  
 CC (GPCR), HGPRBMV18, polynucleotide encoding a novel human GPCR HGPRBMV18.  
 CC Also included are expression vectors, host cells, a fusion protein  
 CC comprising HGPRBMV18 and an FC portion of a human immunoglobulin protein,  
 CC an anti-HGPRBMV18 antibody its antigenic epitope, screening a library of  
 CC molecules or compounds with a polynucleotide to identify at least one  
 CC molecule or compound which specifically binds to the polynucleotide  
 CC sequence and screening for candidate compounds capable of modulating  
 CC activity of a G-protein coupled receptor-encoding polypeptide. HGPRBMV18  
 CC or its (ant)agonist (small molecule, peptide, and antisense molecule) is  
 CC useful for treating a disease, disorder, or condition related to the  
 CC endocrine, gastrointestinal, reproductive, pulmonary, or neural system.  
 CC Diseases include endocrine disorders, disorders of the pituitary,  
 CC aberrant growth hormone synthesis and/or secretion, aberrant prolactin  
 CC synthesis and/or secretion, aberrant luteinising hormone synthesis and/or  
 CC secretion, aberrant follicle-stimulating hormone synthesis and/or  
 CC secretion, aberrant thyroid-stimulating hormone synthesis and/or  
 CC secretion, aberrant adrenocorticotropin synthesis and/or secretion,  
 CC aberrant vasopressin secretion, aberrant oxytocin secretion, aberrant  
 CC growth, aberrant lactation, aberrant sexual characteristic development,



CC aberrant testosterone synthesis and/or secretion, aberrant oestrogen  
 CC synthesis and/or secretion, aberrant water homeostasis, hypogonadism,  
 CC Addison's disease, hypothyroidism, Cushing's disease, agromegaly,  
 CC gigantism, lethargy, osteoporosis, aberrant calcium homeostasis, aberrant  
 CC potassium homeostasis, reproductive disorders, developmental disorders,  
 CC colon cancer, related proliferative condition of the colon, breast  
 CC cancer, related proliferative condition of the breast, prostate cancer,  
 CC related proliferative condition of the prostate, lung cancer, and related  
 CC proliferative condition of the lung, in addition determining the presence  
 CC or amount of expression of HSPBMV18 is useful for diagnosing a  
 CC (susceptibility to a) pathological condition such as colon cancer,  
 CC related proliferative condition of the colon, breast cancer, related  
 CC proliferative condition of the breast, prostate cancer, related  
 CC proliferative condition of the prostate, lung cancer, and related  
 CC proliferative condition of the lung, the present sequence encodes  
 CC HSPBMV18.  
 CC XX

SO Sequence 1086 BP; 182 A; 349 C; 295 G; 260 T; 0 U; 0 Other;

Query Match 2.8%; Score 44; DB 8; Length 1086;  
 Best Local Similarity 100.0%; Pred. No. 4.6e-08;  
 Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 852 GGAAGTGGTCAATGGATGATCACTTCCAAATTTTACAGATCAC 895  
 DB 658 GGAAGTGGTCAATGGATGATCACTTCCAAATTTTACAGATCAC 701

RESULT 12  
 ABX10627  
 ID ABX10627 standard; DNA; 1160 BP.  
 AC ABX10627;  
 XX  
 DT 11-APR-2003 (first entry)  
 XX  
 DE DNA encoding human orphan SNORF49 receptor.  
 XX  
 KW Human; gene; de; SNORF49 receptor; neuroregulator; inflammation;  
 KW arthritis; autoimmune disease; transplant rejection; infection;  
 KW septicemia; AIDS; neurological disorder; schizophrenia; epilepsy;  
 KW respiratory disorder; asthma; obesity; diabetes; anorexia;  
 KW cardiovascular disorder; ischaemia; stroke; cancer; sexual disorder;  
 KW reproductive disorder; circadian rhythm disorder; renal disorder;  
 KW bone disease; osteoporosis; allergy; Parkinson's disease;  
 KW Alzheimer's disease.  
 KW XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 28..1113  
 FT /\*tag= a  
 FT /product= "SNORF49 receptor"  
 FT XX  
 PN US2002151705-A1.  
 XX  
 PD 17-OCT-2002.  
 XX  
 PF 11-DEC-2001; 2001US-00015498.  
 XX  
 PR 05-OCT-1999; 99US-00412933.  
 XX  
 PA (SMIT/) SMITH K E.  
 PA (QUAN/) QUAN Y.  
 PI Smith KE, Quan Y;  
 XX  
 DR WPI, 2003-198336/19.  
 DR P-SDS; ABG73139.  
 XX  
 PT New recombinant nucleic acid comprising a nucleic acid encoding a  
 PT mammalian SNORF49 receptor, useful for screening antagonist to the  
 PT SNORF49 receptor or as probes to obtain homologous nucleic acids from

PT other species.  
 XX  
 XX Claim 2; Fig 1; 13pp; English.  
 XX  
 PS The invention discloses a recombinant nucleic acid comprising a nucleic  
 CC acid encoding a mammalian SNORF49 receptor, having a sequence identical  
 CC to the sequence of the human SNORF49 receptor-encoding nucleic acid  
 CC contained in plasmid pEX1.T73BS-hs-NORF49-f. SNORF49 receptor is a  
 CC neuroregulator. The nucleic acid is useful for expressing the receptor in  
 CC transfected cells, for screening for antagonists to the SNORF49 receptor  
 CC or as probes to obtain homologous nucleic acids from other species and to  
 CC detect the existence of nucleic acids having complementary sequences in  
 CC samples. The receptor can also be used in the design of drugs for  
 CC treating various pathological conditions, such as inflammation,  
 CC arthritis, autoimmune disease, transplant rejection, infections,  
 CC septicemia, AIDS, neurological disorders, such as schizophrenia and  
 CC epilepsy, respiratory disorders, asthma, obesity, diabetes, anorexia,  
 CC cardiovascular disorders, ischaemia, stroke, cancer, sexual/reproductive  
 CC disorders, circadian rhythm disorders, renal disorders, bone diseases,  
 CC osteoporosis, allergy, Parkinson's disease and Alzheimer's disease. The  
 CC sequence presented is the DNA encoding the human orphan SNORF49 receptor  
 CC XX

SO Sequence 1160 BP; 192 A; 372 C; 318 G; 278 T; 0 U; 0 Other;

Query Match 2.8%; Score 44; DB 7; Length 1160;  
 Best Local Similarity 100.0%; Pred. No. 4.6e-08;  
 Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 852 GGAAGTGGTCAATGGATGATCACTTCCAAATTTTACAGATCAC 895  
 DB 685 GGAAGTGGTCAATGGATGATCACTTCCAAATTTTACAGATCAC 728

RESULT 13  
 AAD08854  
 ID AAD08854 standard; cDNA; 1321 BP.  
 AC AAD08854;  
 XX  
 DT 04-SEP-2001 (first entry)  
 XX  
 DE Human G-protein coupled receptor-20 (GCRC-20) cDNA.  
 XX  
 KW Human; G-protein coupled receptor-20; GCRC-20; gene therapy; cirrhosis;  
 KW transgenic animal; proliferative disorder; actinic keratosis;  
 KW hepatitis nephrotropic; cancer; breast; bladder; bone marrow; brain;  
 KW uterus; leukaemia; adenocarcinoma; lymphoma; melanoma; myeloma; epilepsy;  
 KW stroke; neurological disorder; Alzheimer's disease; Parkinson's disease;  
 KW nausea; Huntington's disease; multiple sclerosis; dementia;  
 KW angina pectoris; central nervous system disorder;  
 KW cardiovascular disorder; hypertension; atherosclerosis;  
 KW congestive heart failure; gastrointestinal disorder; dysphagia;  
 KW peptic esophagitis; spasm; gastritis; anorexia; pancreatitis;  
 KW Crohn's disease; diarrhoea; autoimmune disorder; anaemia;  
 KW inflammatory disorder; Acquired Immune Deficiency Syndrome; AIDS;  
 KW Addison's disease; allergy; asthma; diabetes mellitus; antithyroid;  
 KW atopic dermatitis; glomerulonephritis; Grave's disease; psoriasis;  
 KW rheumatoid arthritis; ulcerative colitis; osteoporosis; antifungal;  
 KW metabolic disorder; obesity; noctropic; protozoacide; viroicide; ss.  
 KW XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 30..1115  
 FT /\*tag= a  
 FT /product= "Human GCRC-20 protein"  
 FT XX  
 PN WO200142288-A2.  
 XX  
 PD 14-JUN-2001.  
 XX  
 PF 07-DEC-2000; 2000MO-US033382.  
 XX  
 PT

PR 10-DEC-1999; 99US-0172852P.  
 PR 22-DEC-1999; 99US-0171732P.  
 PR 14-JAN-2000; 2000US-0176148P.  
 PR 21-JAN-2000; 2000US-0177331P.  
 XX  
 PA (INCY-) INCYTE GENOMICS INC.  
 XX  
 PI Burford N, Baughn MR, Au-Young J, Yang J, Lu DM, Reddy R;  
 XX  
 DR WPI; 2001-381635/40.  
 DR P-PSDB; AAE04564.  
 XX  
 PT New human G-protein coupled receptor polypeptides for diagnosing,  
 PT preventing, and treating cell proliferative, neurological,  
 PT cardiovascular, gastrointestinal, autoimmune and metabolic disorders.  
 XX  
 PS Claim 5; Page 167; 175pp; English.  
 XX  
 CC The present sequence is human G-protein coupled receptor-20 (GCREC-20)  
 CC CNA. GCREC is useful in somatic or germ-line gene therapy to correct a  
 CC genetic deficiency, to express a conditionally lethal gene product and to  
 CC express a protein which affords protection against intracellular  
 CC parasites and also for diagnosis of disorders associated with expression  
 CC of GCREC. GCREC is also useful for generating hybridisation probes useful  
 CC in mapping the naturally occurring genomic sequences and to create  
 CC knock-in humanised animals (pigs) or transgenic animals (mice or rats) to  
 CC model human diseases. GCREC is used to diagnose, prevent and treat  
 CC proliferative disorders (actinic keratosis, arteriosclerosis, cirrhosis,  
 CC hepatitis and cancer); cancer (breast, bladder, bone marrow, brain,  
 CC uterine cancer, leukaemia, adenocarcinoma, lymphoma, melanoma and myeloma)  
 CC neurological disorders (epilepsy, stroke, Alzheimer's, Huntington's,  
 CC Parkinson's disease, multiple sclerosis, dementia and other central  
 CC nervous system disorders); cardiovascular disorders (angina pectoris,  
 CC hypertension, atherosclerosis, congestive heart failure);  
 CC gastrointestinal disorders (dysphagia, peptic oesophagitis, oesophageal  
 CC spasm, gastritis, gastric carcinoma, anorexia, nausea, abdominal angina,  
 CC pyrosis, pancreatitis, Crohn's disease, diarrhoea); autoimmune/  
 CC inflammatory disorders (acquired immunodeficiency syndrome (AIDS),  
 CC Addison's diseases, allergies, anaemia, asthma, diabetes mellitus, atopic  
 CC dermatitis, glomerulonephritis, Grave's disease, osteoarthritis, atopic  
 CC psoriasis, rheumatoid arthritis, ulcerative colitis, bacterial, fungal,  
 CC parasitic, protozoal and helminthic infections) and metabolic disorders  
 CC (obesity, osteoporosis, viral infections)  
 XX  
 SQ Sequence 1321 BP; 243 A; 404 C; 348 G; 326 T; 0 U; 0 Other;  
 XX  
 Query Match 2.8%; Score 44; DB 4; Length 1321;  
 Best Local Similarity 100.0%; Pred. No. 4.5e-08;  
 Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 QY 852 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 895  
 |||||||  
 Db 687 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 730  
 |||||||  
 XX  
 RESULT 14  
 AA166039 standard; cDNA; 1458 BP.  
 AC AA166039;  
 XX  
 DT 08-JAN-2002 (first entry)  
 XX  
 DE Human G protein-coupled receptor encoding cDNA SEQ ID NO 2.  
 XX  
 KW Human; G protein-coupled receptor; cytosolic; cancer; hypophosphatemia;  
 KW ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 58..1143  
 FT /\*tag= a

FT /product= "G protein-coupled receptor"  
 FT /note= "Claimed in claim 6"  
 XX  
 PN JP2001211885-A.  
 XX  
 PD 07-AUG-2001.  
 XX  
 PF 02-FEB-2000; 2000JP-00024921.  
 XX  
 PR 02-FEB-2000; 2000JP-00024921.  
 XX  
 PA (KYOW) KYOWA HAKKO KOGYO KK.  
 XX  
 DR WPI; 2001-629567/73.  
 DR P-PSDB; AAM51426.  
 XX  
 PT A new G protein-coupled receptor polypeptide.  
 XX  
 PS Claim 6; Page 41-42; 52pp; Japanese.  
 XX  
 CC The invention relates to a human G protein-coupled receptor polypeptide  
 CC with cytosolic activity and used for the treatment of cancers or  
 CC hypophosphatism  
 CC  
 SQ Sequence 1458 BP; 271 A; 445 C; 386 G; 356 T; 0 U; 0 Other;  
 XX  
 Query Match 2.8%; Score 44; DB 4; Length 1458;  
 Best Local Similarity 100.0%; Pred. No. 4.5e-08;  
 Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 QY 852 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 895  
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 Db 715 GGACTGGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 758  
 |||||||  
 XX  
 RESULT 15  
 AB242599 standard; DNA; 1737 BP.  
 ID AB242599  
 AC AB242599;  
 XX  
 DT 04-MAR-2003 (first entry)  
 XX  
 DE Human G protein-coupled receptor 14273 nucleotide SEQ ID NO:681.  
 XX  
 KW G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;  
 KW G protein-coupled receptor modulator; antibody; immune-related disease;  
 KW growth-related disease; cell regeneration-related disease; AIDS; cancer;  
 KW immunological-related cell proliferative disease; autoimmune disease;  
 KW Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;  
 KW osteoporosis; cardiomyopathy; inflammation; Crohn's disease; diabetes;  
 KW graft versus host disease; Parkinson's disease; multiple sclerosis; pain;  
 KW psoriasis; anxiety; depression; schizophrenia; dementia; memory loss;  
 KW mental retardation; epilepsy; asthma; tuberculosis; obesity; nausea;  
 KW hypertension; hypotension; renal disorder; rheumatoid arthritis; trauma;  
 KW ulcer; gene; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN W0200261087-A2.  
 XX  
 PD 08-AUG-2002.  
 XX  
 PF 19-DEC-2001; 2001WO-US050107.  
 XX  
 PR 19-DEC-2000; 2000US-0257144P.  
 XX  
 PA (LIFE-) LIFESPAN BIOSCIENCES INC.  
 XX  
 PI Burner GC, Roush CL, Brown JP;  
 XX  
 DR WPI; 2003-046718/04.  
 DR P-PSDB; ABP81754.

XX New isolated antigenic peptides e.g., for G protein-coupled receptors  
 PT (GPCR), useful for diagnosing and designing drugs for treating conditions  
 PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or  
 PT autoimmune diseases.

XX  
 PS Disclosure; Fig 1; 523pp; English.

XX  
 CC The present invention describes antigenic peptides (1) comprising: (a)  
 CC any one of 1601 sequences (see ABP82019 to ABP83619) of 12-24 amino  
 CC acids. Also described: (1) an assay for the detection of a particular G  
 CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample;  
 CC and (2) an isolated antibody having high specificity and high affinity or  
 CC avidity for a particular GPCR. (1) can be used as GPCR modulators and in  
 CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an  
 CC antibody against a particular GPCR, and in the production of specific  
 CC antibodies. The peptides and antibodies are also useful for detecting the  
 CC presence or absence of corresponding GPCRs. The antigenic peptides for  
 CC GPCRs and antibodies are useful for diagnosing and designing drugs for  
 CC treating immune-related diseases, growth-related diseases, cell  
 CC regeneration-related diseases, immunological-related cell proliferative  
 CC diseases, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,  
 CC atherosclerosis, bacterial, fungal, protozoan or viral infections,  
 CC osteoarthritis, osteoporosis, cancer, cardiomyopathy, chronic and acute  
 CC inflammation, allergies, Crohn's disease, diabetes, graft versus host  
 CC disease, Parkinson's disease, multiple sclerosis, pain, psoriasis,  
 CC anxiety, depression, schizophrenia, dementia, mental retardation, memory  
 CC loss, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension,  
 CC hypotension, renal disorders, rheumatoid arthritis, trauma, ulcers, or  
 CC any other disorder in which GPCRs are involved. The antibodies may be  
 CC used in immunoassays and immunodiagnosis. ABZ42523 to ABZ42869 encode  
 CC GPCR proteins given in ABP81675 to ABP82018, which are used in the  
 CC exemplification of the present invention

XX  
 SQ Sequence 1737 BP; 377 A; 487 C; 440 G; 430 T; 0 U; 3 Other;

Query Match 2.8%; Score 44; DB 7; Length 1737;

Best Local Similarity 100.0%; Pred. No. 4.4e-08;

Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 852 GGACTGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 895  
 |||||  
 DB 701 GGACTGTCATTGTGATCAGTACTCCAAATTTTACAGATCAC 744

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Job time : 572.119 secs



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OM nucleic - nucleic search, using sw model

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- 10: /cgn2\_6/prodata/1/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/prodata/1/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/prodata/1/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/prodata/1/pubpna/US09\_NEW\_PUB.seq2:\*
- 14: /cgn2\_6/prodata/1/pubpna/US10A\_PUBCOMB.seq:\*
- 15: /cgn2\_6/prodata/1/pubpna/US10B\_PUBCOMB.seq:\*
- 16: /cgn2\_6/prodata/1/pubpna/US10C\_PUBCOMB.seq:\*
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- 18: /cgn2\_6/prodata/1/pubpna/US60\_NEW\_PUB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1560	100.0	1560	US-10-086-181-4	Sequence 4, Appl1
2	1560	100.0	1560	US-10-077-698-5	Sequence 5, Appl1
3	1560	100.0	1560	US-10-171-027-5	Sequence 5, Appl1
4	1560	100.0	1560	US-10-075-987-5	Sequence 5, Appl1
5	1086	69.6	1086	US-10-086-181-6	Sequence 6, Appl1
6	181	11.6	181	US-10-171-027-14	Sequence 14, Appl1
7	138	8.8	138	US-10-171-027-15	Sequence 15, Appl1
8	57	3.7	259	US-09-535-459-1891	Sequence 1891, Ap
9	57	3.7	261	US-09-535-459-1881	Sequence 1881, Ap
10	57	3.7	285	US-09-535-459-1892	Sequence 1892, Ap
11	56	3.6	269	US-09-535-459-1882	Sequence 1882, Ap
12	50	3.2	262	US-09-535-459-1884	Sequence 1884, Ap
13	44	2.8	280	US-09-535-459-1889	Sequence 1889, Ap
14	44	2.8	1086	US-09-995-225-7	Sequence 7, Appl1

15	44	2.8	1086	10	US-09-992-331-1	Sequence 1, Appl1
16	44	2.8	1086	10	US-09-995-225-7	Sequence 7, Appl1
17	44	2.8	1086	14	US-10-086-181-3	Sequence 11, Appl1
18	44	2.8	1086	15	US-10-083-168-11	Sequence 8, Appl1
19	44	2.8	1086	15	US-10-083-168-78	Sequence 80, Appl1
20	44	2.8	1086	15	US-10-083-168-80	Sequence 1, Appl1
21	44	2.8	1086	15	US-10-262-313-1	Sequence 1, Appl1
22	44	2.8	1086	17	US-10-768-878-1	Sequence 1, Appl1
23	44	2.8	1160	14	US-10-015-498-1	Sequence 1, Appl1
24	44	2.8	1737	15	US-10-225-567A-681	Sequence 681, App
25	25	2.8	1743	14	US-10-086-181-1	Sequence 1, Appl1
26	44	2.8	1743	15	US-10-077-698-2	Sequence 2, Appl1
27	44	2.8	1743	15	US-10-171-027-2	Sequence 2, Appl1
28	44	2.8	1743	15	US-10-075-987-2	Sequence 2, Appl1
29	42	2.7	297	10	US-09-535-459-1895	Sequence 1895, Ap
30	40	2.6	1066	15	US-10-017-161-1809	Sequence 1809, Ap
31	40	2.6	1066	16	US-10-292-798-1465	Sequence 1465, Ap
32	32	2.6	1104	10	US-09-791-932-10	Sequence 10, Appl1
33	40	2.6	3173	15	US-10-116-252-5	Sequence 5, Appl1
34	39	2.5	638	9	US-09-828-644-58	Sequence 58, Appl1
35	38	2.4	203	10	US-09-535-459-1916	Sequence 1916, Ap
36	38	2.4	217	10	US-09-535-459-1915	Sequence 1915, Ap
37	38	2.4	221	10	US-09-535-459-1919	Sequence 1919, Ap
38	38	2.4	241	9	US-09-879-536-472	Sequence 472, App
39	38	2.4	250	10	US-09-535-459-1923	Sequence 1923, Ap
40	38	2.4	254	10	US-09-535-459-1921	Sequence 1921, Ap
41	38	2.4	273	10	US-09-535-459-1926	Sequence 1926, Ap
42	38	2.4	278	10	US-09-535-459-1913	Sequence 1913, Ap
43	38	2.4	280	10	US-09-535-459-1910	Sequence 1910, Ap
44	38	2.4	281	10	US-09-535-459-1920	Sequence 1920, Ap
45	38	2.4	283	10	US-09-535-459-1925	Sequence 1925, Ap

#### ALIGNMENTS

RESULT 1	US-10-086-181-4
Sequence 4, Application US/10086181	
Publication No. US20020177151A1	
GENERAL INFORMATION:	
APPLICANT: GIMENO, Ruth	
TITLE OF INVENTION: METHODS FOR THE TREATMENT OF METABOLIC DISORDERS, INCLUDING OBESITY AND DIABETES	
FILE REFERENCE: NMI-220	
CURRENT APPLICATION NUMBER: US/10/086,181	
CURRENT FILING DATE: 2002-02-26	
PRIOR APPLICATION NUMBER: 60/271,655	
PRIOR FILING DATE: 2001-02-26	
NUMBER OF SEQ ID NOS: 16	
SOFTWARE: FastSeq for Windows Version 4.0	
SEQ ID NO 4	
LENGTH: 1560	
TYPE: DNA	
ORGANISM: Murine ortholog	
FEATURE:	
NAME/KEY: CDS	
LOCATION: (195)...(1280)	
US-10-086-181-4	
Query Match	100.0%; Score 1560; DB 14; Length 1560;
Best Local Similarity	100.0%; Pred. No. 0;
Matches 1560; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
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DB	1 TTGCACAGCTCAGCGTAAGCCTCTTCACATGCATCTCAGAGAGGGTTCATGAGTGC 60
QY	61 TTACACCATCAGTACGACCTCCAGACTTGTCCGGCTTTACCCGAATCTTCACAGCGAG 120
DB	61 TTACACCATCAGTACGACCTCCAGACTTGTCCGGCTTTACCCGAATCTTCACAGCGAG 120
QY	121 TCATATACCTCTTTCAGACGACGAGCGGCGAGCTCCGCAATCTTCCGAGCGCTGG 180

Db 121 TCGATGACCCCTCTTGACAGCAGAGCGCGAGCTCCGCACTCTCCGGAGCGGTGG 180  
Qy 181 GCGGGGCGCCGCGCATGTCCCCTGAGTGTGACAGAGCGGGCCCTGGTCCCTGGACA 240  
Db 181 GCGGGGCGCCGCGCATGTCCCCTGAGTGTGACAGAGCGGGCCCTGGTCCCTGGACA 240  
Qy 241 CCCGAGCAAGTCAATCGACCCGACTTCCCTTCTCTGCGAATGTCAAGGGGCGACACC 300  
Db 241 CCCGAGCAAGTCAATCGACCCGACTTCCCTTCTCTGCGAATGTCAAGGGGCGACACC 300  
Qy 301 GGTGTGTGTGAGCGGTGTGAGAGCAACCGTTCTGGGACTCATCTTGTGTCTCACTGC 360  
Db 301 GGTGTGTGTGAGCGGTGTGAGAGCAACCGTTCTGGGACTCATCTTGTGTCTCACTGC 360  
Qy 361 TGGGCAACGTGTGTCTGT 420  
Db 361 TGGGCAACGTGTGTCTGT 420  
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Db 421 GCGTGTGTCTCAACCTCTTCTGCGCGGATTTGCTCTTCAACGAGGCGCATCCCTGTAGTC 480  
Qy 481 TCGT 540  
Db 481 TCGT 540  
Qy 541 ACGT 600  
Db 541 ACGT 600  
Qy 601 GCATGT 660  
Db 601 GCATGT 660  
Qy 661 CCGGACTGT 720  
Db 661 CCGGACTGT 720  
Qy 721 TGT 780  
Db 721 TGT 780  
Qy 781 TGT 840  
Db 781 TGT 840  
Qy 841 TCGT 900  
Db 841 TCGT 900  
Qy 901 CATGT 960  
Db 901 CATGT 960  
Qy 961 CCCAACAAGACTACCGACTCTTCCGCAAGCTCTTCTGCTCATGTGTGTGTGTGTGTGT 1020  
Db 961 CCCAACAAGACTACCGACTCTTCCGCAAGCTCTTCTGCTCATGTGTGTGTGTGTGTGT 1020  
Qy 1021 TGT 1080  
Db 1021 TGT 1080  
Qy 1081 TGT 1140  
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Qy 1141 TTAACCCCATCTGTACAAAGT 1200  
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Db 1201 GCTTCTTTTTCAGAGAGGAGCCATTTTACAGATCGTGTGTGTGTGTGTGTGTGTGTGT 1260  
Qy 1261 TGT 1320  
Db 1261 TGT 1320  
Qy 1321 GGGAGTTAACTTCAAGGAAAGCCACGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1380  
Db 1321 GGGAGTTAACTTCAAGGAAAGCCACGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1380  
Qy 1381 ACAGCAGGACTTCAAGGAGCCAGCAATTAAGAAATGATGTGTGTGTGTGTGTGTGTGT 1440  
Db 1381 ACAGCAGGACTTCAAGGAGCCAGCAATTAAGAAATGATGTGTGTGTGTGTGTGTGT 1440  
Qy 1441 TCCCTTAAAGAACTTCTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1500  
Db 1441 TCCCTTAAAGAACTTCTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1500  
Qy 1501 GATCTAGTTAATAATTTTATTTATATACGTGTCTTACAAAAAATTTTATTTTATTTAT 1560  
Db 1501 GATCTAGTTAATAATTTTATTTATATACGTGTCTTACAAAAAATTTTATTTTATTTAT 1560

RESULT 2  
US-10-077-698-5  
; Sequence 5, Application US/10077698  
; Publication No. US20030008350A1  
; GENERAL INFORMATION:  
; APPLICANT: Glucksmann, Maria A.  
; TITLE OF INVENTION: 14273 Receptor, A No. US20030008350A1 G-Protein Coupled Receptor  
; FILE REFERENCE: 5800-4B, 035800/177086  
; CURRENT APPLICATION NUMBER: US/10/077,698  
; PRIOR FILING DATE: 2002-02-13  
; PRIOR APPLICATION NUMBER: 09/261,599  
; PRIOR FILING DATE: 1999-02-26  
; PRIOR APPLICATION NUMBER: 09/107,761  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: 09/223,538  
; PRIOR FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1560  
; TYPE: DNA  
; ORGANISM: Murine ortholog  
US-10-077-698-5

Query Match 100.0%; Score 1560; DB 15; Length 1560;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1560; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 TTGCGAAGCTCACGCTAAGGCTCTTCCAGTGCATCTCAGAGAAAGGGTTTCAATGAGTGC 60  
Qy 61 TTCAACCATCAAGTACCACTTCCGAGCTTTCACCGAATCTTTCACAGCGGAG 120  
Db 61 TTCAACCATCAAGTACCACTTCCGAGCTTTCACCGAATCTTTCACAGCGGAG 120  
Qy 121 TCGATGACCTCTTGTACAGCAGCAGCGCGGAGCTCCGCAATCTTCCGAGCGGTGG 180  
Db 121 TCGATGACCTCTTGTACAGCAGCAGCGCGGAGCTCCGCAATCTTCCGAGCGGTGG 180  
Qy 181 GCGGGGCGCCGCGATGTCCCCTGAGTGTGACAGAGAGGGGCGGTGTGTGTGTGTGTGT 240  
Db 181 GCGGGGCGCCGCGATGTCCCCTGAGTGTGACAGAGAGGGGCGGTGTGTGTGTGTGTGT 240  
Qy 241 CCCGAGCAAGTCAATCGACCACTTCCCTTCTTCTGAGTGTCAAGGGCGACCAACC 300  
Db 241 CCCGAGCAAGTCAATCGACCACTTCCCTTCTTCTGAGTGTCAAGGGCGACCAACC 300  
Qy 301 GGT 360  
Db 301 GGT 360

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Qy	361	TGGGCMAAGTGTGTCTTAAGTGTGTGTGGCGCGCCGTGCGCGCTGTGGCGCTCAGCA	420
Db	361	TGGGCMAAGTGTGTCTTAAGTGTGTGTGGCGCGCGCCGTGCGCGCTGTGGCGCTCAGCA	420
Qy	421	GCCTGTGTCTCAACCTCTTCTGGCGGGAATTGTCTTACACAGAGCGCATCCCTCTAAGTC	480
Db	421	GCCTGTGTCTCAACCTCTTCTGGCGGGAATTGTCTTACACAGAGCGCATCCCTCTAAGTC	480
Qy	481	TGCTGTGTGCGTGAAGCTGAGGCGCTGGCTGTGGGGCGCGTGTGTGCCACCTGTCTTCT	540
Db	481	TGCTGTGTGCGTGAAGCTGAGGCGCTGGCTGTGGGGCGCGTGTGTGCCACCTGTCTTCT	540
Qy	541	ACGTGATGACAATGAGCGGCGAGCGCTCAGATCTCTACAAGCGCGGTCAAGCTGAGGC	600
Db	541	ACGTGATGACAATGAGCGGCGAGCGCTCAGATCTCTACAAGCGCGGTCAAGCTGAGGC	600
Qy	601	GCATGTGTGTGATGTGTGCGCTTCGGGCGCGGCTTGAAGGCGCGCGGGGGGGGAGCTCAG	660
Db	601	GCATGTGTGTGATGTGTGCGCTTCGGGCGCGGCTTGAAGGCGCGCGGGGGGGGAGCTCAG	660
Qy	661	CGGCACTGTGGCTTTCATATGTGGGTATCTCGGCGCTGCGCGCGTGCCTCTACATCT	720
Db	661	CGGCACTGTGGCTTTCATATGTGGGTATCTCGGCGCTGCGCGCGTGCCTCTACATCT	720
Qy	721	TGTTCCGCGTGTGCCGAGCGCTTCCGCGCGGGAGCAGAGAAATTCGATTTGGACAT	780
Db	721	TGTTCCGCGTGTGCCGAGCGCTTCCGCGCGGGAGCAGAGAAATTCGATTTGGACAT	780
Qy	781	TGATTTGGCCCAACCGCATAGAGAAATCTCATGGGATGTGTTTTGTAGACTTTGAAT	840
Db	781	TGATTTGGCCCAACCGCATAGAGAAATCTCATGGGATGTGTTTTGTAGACTTTGAAT	840
Qy	841	TCCGTGTGCCGGGACTGTGCTATGTGATCAGTATCTCCAAAATTTTACAGATCAGAAAG	900
Db	841	TCCGTGTGTGCCGGGACTGTGCTATGTGATCAGTATCTCCAAAATTTTACAGATCAGAAAG	900
Qy	901	CATCGCGGAGAGGCTTACGCTGTAGCTTGGCATACTCTGAGAGCCACAGATCCGAGTGT	960
Db	901	CATCGCGGAGAGGCTTACGCTGTAGCTTGGCATACTCTGAGAGCCACAGATCCGAGTGT	960
Qy	961	CCCAACAAAGATTAACGATCTTTCGGCAGGCTTCTCTGTCTCATGGTTTCTTTCTTCACTA	1020
Db	961	CCCAACAAAGATTAACGATCTTTCGGCAGGCTTCTCTGTCTCATGGTTTCTTTCTTCACTA	1020
Qy	1021	TGTGGAGTCCCATCATCATCAACATCCCTCATCTTATCATCAAAACTTCCGGCAGAGCC	1080
Db	1021	TGTGGAGTCCCATCATCATCAACATCCCTCATCTTATCATCAAAACTTCCGGCAGAGCC	1080
Qy	1081	TGCTCATCTGGCAATCCCTTTTCTTGTGGGTGTGGCCCTTACAGTTTGGCAACTGTGCC	1140
Db	1081	TGCTCATCTGGCAATCCCTTTTCTTGTGGGTGTGGCCCTTACAGTTTGGCAACTGTGCC	1140
Qy	1141	TAAACCCCATCTGTACAACATGTGTGCTGTTCAGAGAACGAATGGAGAAATTTTGTCT	1200
Db	1141	TAAACCCCATCTGTACAACATGTGTGCTGTTCAGAGAACGAATGGAGAAATTTTGTCT	1200
Qy	1201	GCTTCTTTTTCAGAGAAAGGAGCATTTTTCAGATTAAGCTGTGTCAAGGGAATGACT	1260
Db	1201	GCTTCTTTTTCAGAGAAAGGAGCATTTTTCAGATTAAGCTGTGTCAAGGGAATGACT	1260
Qy	1261	TGCTGTATTTTCCAGTACTAGCTGTGTGTGCGCAGGTGGAACAACGCTGTGTCAATGTAA	1320
Db	1261	TGCTGTATTTTCCAGTACTAGCTGTGTGTGCGCAGGTGGAACAACGCTGTGTCAATGTAA	1320
Qy	1321	GGAGATTAACTTCAAGGAAAGCCACAGTGTGCCCTTTTAAAAAATCCGCACTTCCA	1380
Db	1321	GGAGATTAACTTCAAGGAAAGCCACAGTGTGCCCTTTTAAAAAATCCGCACTTCCA	1380
Qy	1381	ACAGAGGATCTTACGAGACCAAGAAATTAAGAAATGATTCGCTCATTAATAATATTTT	1440
Db	1381	ACAGAGGATCTTACGAGACCAAGAAATTAAGAAATGATTCGCTCATTAATAATATTTT	1440

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Db      1441  TCCTTAAAGAAGCTTTCFANGGGTTCCTTTGTGAACTTTTAAAGTGTGTTGAATAT 1500
Oy      1501  GATCTAGTAAATPAATTTTATTATTAATPAACGTGTCTCTACAAAAA 1560
Db      1501  GATCTAGTAAATPAATTTTATTATTAATPAACGTGTCTCTACAAAAA 1560

RESULT 3
US-10-171-027-5
; Sequence 5, Application US/10171027
; Publication No. US20030073168A1
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; APPLICANT: Tsai, Fong-Ying
; TITLE OF INVENTION: 1473 Receptor, A No. US20030073168A1 G-Protein Coupled Receptor
; FILE REFERENCE: MN1-204CP3
; CURRENT APPLICATION NUMBER: US/10/171, 027
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US/09/456,455
; PRIOR FILING DATE: 1998-12-08
; PRIOR APPLICATION NUMBER: 09/223, 538
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1560
; TYPE: DNA
; ORGANISM: Murine ortholog
US-10-171-027-5

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QY 541 ACGGATGACAAATAGCGGAGCGCTACGATCTCACACTGCGCGGCTGACCTGAGC 600  
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DB 601 GCATGCTGTCATGTCGCTCCGCGCGGCTTGAAGCGCGCGGAGCTGAGC 660  
QY 661 CGGACGTCGCTTTCATATAGGGGTTACTCGGCGCTCCGCGCGCTCCCTCAACAT 720  
DB 661 CGGACGTCGCTTTCATATAGGGGTTACTCGGCGCTCCGCGCGCTCCCTCAACAT 720  
QY 721 TGTTCGCGTGTGCTCCGCGCGCTTCCGCGCGGAGCAGGAATTCGATTTGCAAT 780  
DB 721 TGTTCGCGTGTGCTCCGCGCGCTTCCGCGCGGAGCAGGAATTCGATTTGCAAT 780  
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DB 781 TGTATGCGCCCAACCGCATAGAGAAATCTCATGAGATGTTGTTTGAAGCTTGAAC 840  
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DB 841 TCCGTGTCGCGGAGCTGTCATTTGTGATCACTTCAAAATTTTACAGATCAAGAA 900  
QY 901 CATGCGGAGAGAGCTTACGCTGAGCTTGGCATCTGAGAGCCACAGATCCGAGTGT 960  
DB 901 CATGCGGAGAGAGCTTACGCTGAGCTTGGCATCTGAGAGCCACAGATCCGAGTGT 960  
QY 961 CCCAACAAGACTACGACTCTTCCGAGCTCTTCTGCTGATGTTTCTTTCATCA 1020  
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RESULT 4  
US-10-075-987-5  
Sequence 5, Application US/10075987  
Publication No. US20030166061A1

GENERAL INFORMATION:  
APPLICANT: Glucksmann, Maria A.  
TITLE OF INVENTION: 14273 Receptor, A No. US20030166061A1 G-Protein Coupled Receptor  
FILE REFERENCE: 5800-4B, 035800/177086  
CURRENT APPLICATION NUMBER: US/10/075,987  
PRIOR FILING DATE: 2002-02-13  
PRIOR APPLICATION NUMBER: US/09/261,599B  
PRIOR FILING DATE: 1999-02-26  
PRIOR APPLICATION NUMBER: 09/223,538  
PRIOR FILING DATE: 1998-12-30  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 5  
LENGTH: 1560  
TYPE: DNA  
ORGANISM: Murine ortholog  
US-10-075-987-5  
Query Match 100.0%; Score 1560; DB 15; Length 1560;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1560; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 TTACACACATCAGTACGACCTCCAGACTGTGCGGGCTTTACCGGAATCTTCACAGCGAG 120  
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DB 121 TCGATGACCTCTTGAAGCAGCAGAGCGCGAGCTCCGCAATCTTCCGAGCGGTG 180  
QY 121 TCGATGACCTCTTGAAGCAGCAGAGCGCGAGCTCCGCAATCTTCCGAGCGGTG 180  
DB 121 TCGATGACCTCTTGAAGCAGCAGAGCGCGAGCTCCGCAATCTTCCGAGCGGTG 180  
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QY 181 GCGGCGCGCGCGGATGTCCCTGAGTGTGCAAGAGAGAGGGCTTGTCCCTCGACA 240  
DB 181 GCGGCGCGCGCGGATGTCCCTGAGTGTGCAAGAGAGAGGGCTTGTCCCTCGACA 240  
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DB 361 TGGGCAACGTGTGCTCTGAGTGTGAGCGCGCGCTGCGCGCGCTGAGCGCA 420  
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DB 421 GCGTGTGCTCAACCTCTTCTGCGCGGAGTTGCTTTCACAGAGCGCATCCCTTAAGTC 480  
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DB 601 GATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660  
QY 661 CGGACGTCGCTTTCATATAGGGGTTACTCGGCGCTCCGCGCGGAGCAGGAATTCGATTTGCAAT 720  
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QY 721 TGTTCGCGTGTGCTCCGAGCGCTTCCGCGCGGAGCAGGAATTCGATTTGCAAT 780  
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QY 781 TGAATGGCCCAACCGATAGAGAAATCTCATGGAGATGTGTTTTTGAAGCTTTGAACT 840  
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 DB 1501 GATCTGATTAATTAATTTTATTTATTAAGCTGTCTTCAAAAAAATTTTAAAAA 1560

RESULT 5  
 US-10-086-181-6  
 ; Sequence 6, Application US/10086181  
 ; Publication No. US2002017151A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GIMENO, RUTH  
 ; TITLE OF INVENTION: METHODS FOR THE TREATMENT OF METABOLIC  
 ; FILE OF INVENTION: DISORDERS, INCLUDING OBESITY AND DIABETES  
 ; FILE REFERENCE: NMI-220  
 ; CURRENT APPLICATION NUMBER: US/10/086,181  
 ; PRIOR APPLICATION NUMBER: 2002-02-26  
 ; PRIOR FILING DATE: 2001-02-26  
 ; NUMBER OF SEQ ID NOS: 16  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 6  
 ; LENGTH: 1086  
 ; TYPE: DNA  
 ; ORGANISM: Murine ortholog

US-10-086-181-6

Query Match 69.6%; Score 1086; DB 14; Length 1086;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1086; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 195 ATGCCCCCTGAGTGTGACAGAGAGGAGGCGCTGTGCTCCCTGACACCCCTGGACCAAGTC 254  
 DB 1 ATGCCCCCTGAGTGTGACAGAGAGGAGGCGCTGTGCTCCCTGACACCCCTGGACCAAGTC 60  
 QY 255 AATGCACCACTTCCCTTTCTTCTCGATGTCAAGGAGCAACACCGGTTGTTGAGC 314  
 DB 61 AATGCACCACTTCCCTTTCTTCTCGATGTCAAGGAGCAACACCGGTTGTTGAGC 120  
 QY 315 GTGCTGAGAACACCGCTTCTGAGACTCATCTTGTGCTGTCACTGTGAGCAAGTGTGT 374  
 DB 121 GTGCTGAGAACACCGCTTCTGAGACTCATCTTGTGCTGTCACTGTGAGCAAGTGTGT 180  
 QY 375 GCTCTAGTGTGAGTGTGAGGCGCGCTGAGGCGCGTGGAGGAGGAGGAGGAGGAGGAGG 434  
 DB 181 GCTCTAGTGTGAGTGTGAGGCGCGCTGAGGCGCGTGGAGGAGGAGGAGGAGGAGGAGG 240  
 QY 435 CTCCTTGTGCGGAGTGTGCTTTCACAGAGGCAATCCCTGTAGTGTGTGTGAGTGTGAG 494  
 DB 241 CTCCTTGTGCGGAGTGTGCTTTCACAGAGGCAATCCCTGTAGTGTGTGTGAGTGTGAG 300  
 QY 495 ACTGAGGCTGTGCTGTGAGGAGGCGCTGTGCTGCTGCTTCTTACGTGATGACATG 554  
 DB 301 ACTGAGGCTGTGCTGTGAGGAGGCGCTGTGCTGCTGCTTCTTACGTGATGACATG 360  
 QY 555 AGGCGGAGGCTGACGATCTTCAACAGTGGCGGCTGAGGAGGAGGAGGAGGAGGAGGAGG 614  
 DB 361 AGGCGGAGGCTGACGATCTTCAACAGTGGCGGCTGAGGAGGAGGAGGAGGAGGAGGAGG 420  
 QY 615 GTGCGCTCCGAGGCGGCTTGAAGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 674  
 DB 421 GTGCGCTCCGAGGCGGCTTGAAGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480  
 QY 675 TTCAATATGAGGTTTACTGTGAGGCTGTGCGGCTGTGCTTCAATCTTGTTCGAGTGTG 734  
 DB 481 TTCAATATGAGGTTTACTGTGAGGCTGTGCGGCTGTGCTTCAATCTTGTTCGAGTGTG 540  
 QY 735 CCGGAGGCTTCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 794  
 DB 541 CCGGAGGCTTCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600  
 QY 795 CGCATAGAGAAATCTCATGAGTGTGTTTGAAGCTTGAAGCTTCCGAGTGTGAGGAGG 854  
 DB 601 CGCATAGAGAAATCTCATGAGTGTGTTTGAAGCTTGAAGCTTCCGAGTGTGAGGAGG 660  
 QY 855 CTGCTCATGTGATCACTTCAAAATTTTACAGATCAAGAAAGCATGCGGAGAGG 914  
 DB 661 CTGCTCATGTGATCACTTCAAAATTTTACAGATCAAGAAAGCATGCGGAGAGG 720  
 QY 915 CTTAAGCTGAGCTTGGATATCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 974  
 DB 721 CTTAAGCTGAGCTTGGATATCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780  
 QY 975 CGACTCTTCCGAGGAGGCTTCTGCTCATGAGTGTGCTTCTTCAATCATGTGAGGAGG 1034  
 DB 781 CGACTCTTCCGAGGAGGCTTCTGCTCATGAGTGTGCTTCTTCAATCATGTGAGGAGG 840  
 QY 1035 ATCATCAACATCTCTCTCATCTTGTATCAAACTTCCGAGAGGAGGAGGAGGAGGAGG 1094  
 DB 841 ATCATCAACATCTCTCTCATCTTGTATCAAACTTCCGAGAGGAGGAGGAGGAGGAGG 900  
 QY 1095 TCCCTTTTCTTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1154  
 DB 901 TCCCTTTTCTTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 960  
 QY 1155 TACAACATGTGCTGTTCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1214  
 DB 961 TACAACATGTGCTGTTCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1020

QY 1215 GAGAGGAGCATTCTTTACAGATAGCTGTGTGAGGGAATGACTTGTCTATTTC 1274  
|  
Db 1021 GAGAGGAGCATTCTTTACAGATAGCTGTGTGAGGGAATGACTTGTCTATTTC 1080

QY 1275 AGCTAA 1280  
|  
Db 1081 AGCTAA 1086

## RESULT 6

US-10-171-027-14  
; Sequence 14, Application US/10171027  
; Publication No. US20030073168A1  
; GENERAL INFORMATION:  
; APPLICANT: Glucksmann, Maria A.  
; APPLICANT: Tsai, Fong-Ying  
; TITLE OF INVENTION: 14273 Receptor, A No. US20030073168A1 G-Protein Coupled Recepto  
; FILE REFERENCE: NMI-204CP3  
; CURRENT APPLICATION NUMBER: US/10/171,027  
; CURRENT FILING DATE: 2002-06-12  
; PRIOR APPLICATION NUMBER: US/09/456,455  
; PRIOR FILING DATE: 1999-12-08  
; PRIOR APPLICATION NUMBER: 09/223,538  
; PRIOR FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 181  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-171-027-14

Query Match 11.6%; Score 181; DB 15; Length 181;  
Best Local Similarity 100.0%; Pred. No. 1.5e-82;  
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1021 TGTGAGTCCCATCATCATCATCCCTCTCTCATCTTGATCCAAACTTCCGAGAGACC 1080  
|  
Db 1 TGTGAGTCCCATCATCATCATCCCTCTCTCATCTTGATCCAAACTTCCGAGAGACC 60

QY 1081 TGTGATCTGGCCATCCCTTTCTTCTGTGGGTGTGGCCCTTGACGTTTGCAACTCTGCC 1140  
|  
Db 61 TGTGATCTGGCCATCCCTTTCTTCTGTGGGTGTGGCCCTTGACGTTTGCAACTCTGCC 120

QY 1141 TAAACCCCATCTGTACAACTGTGCGCTGTTCAGAAAGATGAGAAAGATTTTGGCT 1200  
|  
Db 121 TAAACCCCATCTGTACAACTGTGCGCTGTTCAGAAAGATGAGAAAGATTTTGGCT 180

QY 1201 G 1201  
|  
Db 181 G 181

## RESULT 7

US-10-171-027-15  
; Sequence 15, Application US/10171027  
; Publication No. US20030073168A1  
; GENERAL INFORMATION:  
; APPLICANT: Glucksmann, Maria A.  
; APPLICANT: Tsai, Fong-Ying  
; TITLE OF INVENTION: 14273 Receptor, A No. US20030073168A1 G-Protein Coupled Recepto  
; FILE REFERENCE: NMI-204CP3  
; CURRENT APPLICATION NUMBER: US/10/171,027  
; CURRENT FILING DATE: 2002-06-12  
; PRIOR APPLICATION NUMBER: US/09/456,455  
; PRIOR FILING DATE: 1999-12-08  
; PRIOR APPLICATION NUMBER: 09/223,538  
; PRIOR FILING DATE: 1998-12-30  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 15  
; LENGTH: 138

; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-171-027-15

Query Match 8.8%; Score 138; DB 15; Length 138;  
Best Local Similarity 100.0%; Pred. No. 2.3e-60;  
Matches 138; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 909 AAGAGCTTACGCTGAGCTTGAGCACTCTGAGAGCCACAGATCCGAGTCCCAACAA 968  
|  
Db 1 AAGAGCTTACGCTGAGCTTGAGCACTCTGAGAGCCACAGATCCGAGTCCCAACAA 60

QY 969 GACTACCGACTCTTCGCGAGCTTCTTCTGCTATAGTGTCTTCTTCATCATGTGAGT 1028  
|  
Db 61 GACTACCGACTCTTCGCGAGCTTCTTCTGCTATAGTGTCTTCTTCATCATGTGAGT 120

QY 1029 CCCATCATCATCAACATC 1046  
|  
Db 121 CCCATCATCATCAACATC 138

## RESULT 8

US-09-535-459-1891/C  
; Sequence 1891, Application US/09535459  
; Publication No. US20030040615A1  
; GENERAL INFORMATION:  
; APPLICANT: Seilhamer, Jeffrey J.  
; APPLICANT: Delegeane, Angelo M.  
; APPLICANT: Stuart, Susan G.  
; APPLICANT: Stuve, Laura L.  
; APPLICANT: Naughton, Rebecca E.  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULES  
; FILE REFERENCE: PD-1014 CIP  
; CURRENT APPLICATION NUMBER: US/09/535,459  
; CURRENT FILING DATE: 2000-03-24  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 2170  
; SOFTWARE: PERL Program  
; SEQ ID NO 1891  
; LENGTH: 259  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20030040615A1 rat00161335  
; LOCATION: 104, 238  
; OTHER INFORMATION: a, t, c, g, or other  
US-09-535-459-1891

Query Match 3.7%; Score 57; DB 10; Length 259;  
Best Local Similarity 100.0%; Pred. No. 1.6e-18;  
Matches 57; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 18 AGCTCTTCCATCTGCAATCTTACAGAGGGGTTTCATGAGTGTTCACACCATCAGT 74  
|  
Db 59 AGCTCTTCCATCTGCAATCTTACAGAGGGGTTTCATGAGTGTTCACACCATCAGT 3

## RESULT 9

US-09-535-459-1881  
; Sequence 1881, Application US/09535459  
; Publication No. US20030040615A1  
; GENERAL INFORMATION:  
; APPLICANT: Seilhamer, Jeffrey J.  
; APPLICANT: Delegeane, Angelo M.  
; APPLICANT: Stuart, Susan G.  
; APPLICANT: Stuve, Laura L.  
; APPLICANT: Naughton, Rebecca E.  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULES  
; FILE REFERENCE: PD-1014 CIP

```

: CURRENT APPLICATION NUMBER: US/09/535,459
: CURRENT FILING DATE: 2000-03-24
: Prior application data removed - consult PALM or file wrapper
: NUMBER OF SEQ ID NOS: 2170
: SOFTWARE: PERL Program
: SEQ ID NO 1881
: LENGTH: 261
: TYPE: DNA
: ORGANISM: Rattus norvegicus
: FEATURE:
: NAME/KEY: misc feature
: OTHER INFORMATION: Incyte ID No. US20030040615A1 ratc00212947
: NAME/KEY: unsure
: LOCATION: 23, 81, 171
: OTHER INFORMATION: a, t, c, g, or other
US-09-535-459-1881

```

```

Query Match      3.7%  Score 57;  DB 10;  Length 261;
Best Local Similarity 100.0%  Pred. No. 1.6e-18;
Matches 57;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0

```

0y 19 GCCTCTTCACATGCATCTCACAGAGGGGTTCATGAGTGGCTTCACACCATCAGTG 75  
 |||||  
 db 24 GCCTCTTCACATGCATCTCACAGAGGGGTTCATGAGTGGCTTCACACCATCAGTG 80

```

RESULT 10
US-09-535-459-1892/c
: Sequence 1892, Application US/09535459
: Publication No. US20030040615A1
: GENERAL INFORMATION:
:   APPLICANT: Seilhamer, Jeffrey J.
:   APPLICANT: Delegeane, Angelo M.
:   APPLICANT: Stuart, Susan G.
:   APPLICANT: Stuve, Laura L.
:   APPLICANT: Mulahy, Sara J.
:   APPLICANT: Naughton, Rebecca E.
:   TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
:   FILE REFERENCE: PD-1014 CIP
:   CURRENT APPLICATION NUMBER: US/09/535.459
:   CURRENT FILING DATE: 2000-03-24
:   Prior application data removed - consult PALM or file wrapper
:   NUMBER OF SEQ ID NOS: 2170
:   SOFTWARE: PERL Program
:   SEQ ID NO 1892
:   LENGTH: 285
:   TYPE: DNA
:   ORGANISM: Rattus norvegicus
:   FEATURE:
:     NAME/KEY: misc_feature
:     OTHER INFORMATION: Incyte ID No. US20030040615A1 rat00190334
:     NAME/KEY: unannoted
:     LOCATION: 158..160, 237..267
:     OTHER INFORMATION: a, t, c, g, or other
US-09-535-459-1892

```

Query Match	3.7%	Score 57;	DB 10;	Length 285;
Best Local	100.0%	Pred. No. 1.6e-18;		
Matches 57;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

```
Oy      18 AGCCTTTCCACATGCAATCTCACAGAAGGGGTTCATGGAGTCTTCACACCATCAGT   74
          |||
Db      107 AGCCTTTCCACATGCAATCTCACAGAAGGGGTTCATGGAGTCTTCACACCATCAGT   51
```

RESULT:11  
US-09-535-459-1882  
Sequence 1882, Application US/0953545S  
Publication No. US20030040615A1  
GENERAL INFORMATION:  
APPLICANT: Sellhauer, Jeffrey J.  
APPLICANT: Delegeane, Angelo M.  
APPLICANT: Stuart, Susan G.

```

1  APPLICANT: Stuve, Laura L.
2  APPLICANT: Mullany, Sara J.
3  APPLICANT: Naughton, Rebecca E.
4  TITLE OR INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULES
5  FILE REFERENCE: PD-1014 CIP
6  CURRENT APPLICATION NUMBER: US/09/535,459
7  CURRENT FILING DATE: 2000-03-24
8  Prior application data removed - consult PALM or file wrapper
9  NUMBER OF SEQ ID NOS: 2170
10 SOFTWARE: PERL Program
11 SEQ ID NO 1882
12 LENGTH: 269
13 TYPE: DNA
14 ORGANISM: Rattus norvegicus
15 FEATURE:
16 NAME/KEY: misc feature
17 OTHER INFORMATION: Incyte ID No. US20030040615A1 rat00209119
18 NAME/KEY: unsure
19 LOCATION: 23, 25, 126
20 OTHER INFORMATION: a, t, c, g, or other
21 US-09-535-459-1882

```

Query Match Similarity 3.6%; Score 56; DB 10; length 269;  
Best Local Similarity 100.0%; Pred. No. 5\_2e-18;  
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 21 CTCTTCCACTGCAATCTCAGAGGGGTTATGAGTGCCTCACACCATCAGTGA 76  
 |||||  
 Db 26 CTCTTCCACTGCAATCTCAGAGGGGTTATGAGTGCCTCACACCATCAGTGA 81

```

RESULT 12
US-09-535-459-1884/c
; Sequence 1884, Application US/09535459
; Publication NO. US20030040615A1
; GENERAL INFORMATION:
; APPLICANT: Seilheimer, Jeffrey J.
; APPLICANT: Deleageane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mulahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULES
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 1884
; LENGTH: 262
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 rat00063975
; NAME/KEY: unsure
; LOCATION: 2
; OTHER INFORMATION: a, t, c, g, or other
US-09-535-459-1884

```

Query Match Similarity 3.24; Score 50; DB 10; Length 262;  
Best Local Similarity 100.04; Pred. No. 6.5e-15;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Oy      119 AGTCGATGACCCCTCTTGACAGCCACGAGCGCGGAGCTCCGCCATCTTC 168
          |||||
Db      110 AGTCGATGACCCCTTGACAGCCACGAGCGCGGAGCTCCGCCATCTTC 61

```

RESULT 13  
US-09-535-459-1889/c  
; Sequence 1889, Application US/09535459

```
/ Publication No. US20030040615A1
/ GENERAL INFORMATION:
/ APPLICANT: Sellhammer, Jeffrey J.
/ APPLICANT: Delegeane, Angelo M.
/ APPLICANT: Stuart, Susan G.
/ APPLICANT: Stuve, Laura L.
/ APPLICANT: Mullahy, Sara J.
/ APPLICANT: Naughton, Rebecca E.
/ TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
/ FILE REFERENCE: PD-1014 CIP
/ CURRENT APPLICATION NUMBER: US/09/535,455
/ CURRENT FILING DATE: 2000-03-24
/ Prior application data removed - consult PAM or file wrapper
/ NUMBER OF SEQ ID NOS: 2170
/ SOFTWARE: PERL Program
/ SEQ ID NO 1889
/ LENGTH: 280
/ TYPE: DNA
/ ORGANISM: Rattus norvegicus
/ FEATURE:
/ NAME/KEY: misc feature
/ OTHER INFORMATION: Inctye ID No. US20030040615A1 rat00204309
/ NAME/KEY: unsure
/ LOCATION: 2, 20, 230, 260, 268, 273
/ OTHER INFORMATION: a, t, c, g, or other
/ US-09-535-459-1889
```

Query Match 2.8%; Score 44; DB 10; Length 280;

Best Local Similarity 100.0%; Pred. No. 8.2e-12; Indels 0; Gaps 0;

Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 144 GCATCTCACGAAAGGGGTTTCATGAGTGTCTTACACCATCAGT 74

144 GCATCTCACGAAAGGGGTTTCATGAGTGTCTTACACCATCAGT 101

```
RESULT 14
US-09-995-225-7
/ Sequence 7, Application US/09995225
/ Publication No. US20020193584A1
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Kuoping
/ APPLICANT: Chu, Zhi Liang
/ APPLICANT: Dang, Huong T.
/ APPLICANT: Lowitz, Kevin P.
/ APPLICANT: Pride, Cameron
/ TITLE OF INVENTION: Endogenous And No. US20020193584A1-Endogenous Versions of Human C
/ TITLE OF INVENTION: Receptors
/ FILE REFERENCE: AREN-0308
/ CURRENT APPLICATION NUMBER: US/09/995,225
/ CURRENT FILING DATE: 2001-11-26
/ PRIOR APPLICATION NUMBER: 09/170,496
/ PRIOR FILING DATE: 1998-10-13
/ PRIOR APPLICATION NUMBER: PCT/US99/23938
/ PRIOR FILING DATE: 1998-10-13
/ PRIOR APPLICATION NUMBER: 60/253,404
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/255,366
/ PRIOR FILING DATE: 2000-12-12
/ PRIOR APPLICATION NUMBER: 60/270,286
/ PRIOR FILING DATE: 2001-02-20
/ PRIOR APPLICATION NUMBER: 60/282,365
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/270,266
/ PRIOR FILING DATE: 2001-02-20
/ PRIOR APPLICATION NUMBER: 60/282,032
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/282,358
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/282,356
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: 60/290,917
/ PRIOR FILING DATE: 2001-05-14
```

```
/ PRIOR APPLICATION NUMBER: 60/309,208
/ PRIOR FILING DATE: 2001-07-31
/ NUMBER OF SEQ ID NOS: 67
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 7
/ LENGTH: 1086
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: No. US20020193584A1el Sequence
/ US-09-995-225-7
```

Query Match 2.8%; Score 44; DB 9; Length 1086;

Best Local Similarity 100.0%; Pred. No. 8.3e-12; Indels 0; Gaps 0;

Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 658 GGACTGGTCATTGTGATCAGTTACTTCCAAATTTTACAGATCAG 701

658 GGACTGGTCATTGTGATCAGTTACTTCCAAATTTTACAGATCAG 701

```
RESULT 15
US-09-992-331-1
/ Sequence 1, Application US/09992331
/ Publication No. US20030022186A1
/ GENERAL INFORMATION:
/ APPLICANT: FEDER, JOHN N.
/ APPLICANT: MINTIER, GABE
/ APPLICANT: RAMANATHAN, CHANDRA S.
/ APPLICANT: HAMKEN, DONALD R.
/ TITLE OF INVENTION: A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HPPREXY18,
/ TITLE OF INVENTION: EXPRESSED HIGHLY IN PITUITARY GLAND AND COLON CARCINOMA
/ FILE REFERENCE: D0048NP
/ CURRENT APPLICATION NUMBER: US/09/992,331
/ CURRENT FILING DATE: 2001-11-14
/ PRIOR APPLICATION NUMBER: 60/308,540
/ PRIOR FILING DATE: 2001-07-27
/ PRIOR APPLICATION NUMBER: 60/261,782
/ PRIOR FILING DATE: 2001-01-16
/ PRIOR APPLICATION NUMBER: 60/248,483
/ PRIOR FILING DATE: 2000-11-14
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1
/ LENGTH: 1086
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-09-992-331-1
```

Query Match 2.8%; Score 44; DB 10; Length 1086;

Best Local Similarity 100.0%; Pred. No. 8.3e-12; Indels 0; Gaps 0;

Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 852 GGACTGGTCATTGTGATCAGTTACTTCCAAATTTTACAGATCAG 895

658 GGACTGGTCATTGTGATCAGTTACTTCCAAATTTTACAGATCAG 701

Search completed: October 1, 2004, 04:22:21

Job time : 733.589 secs